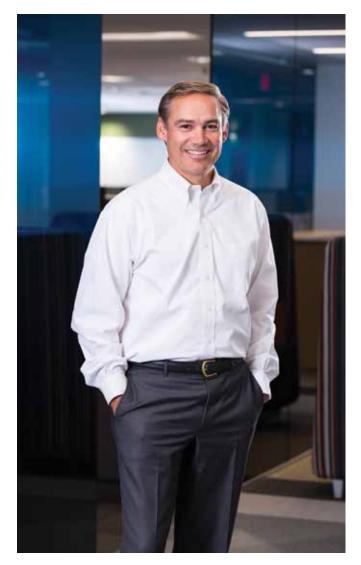


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A trusted partner



In this issue of *Horizons*, you'll learn how the selection of Rockwell Collins to provide significant flight deck and flight control content on Boeing's new 777X aircraft was a major achievement for our company. As explained in the cover story, "Triple win with the 777X," our company is able to now provide flight deck commonality across Boeing's family of next-generation airplanes, including the 787 Dreamliner and 737 MAX.

As a result of this commonality, Boeing will realize savings in life-cycle costs across all these platforms. And any future upgrades and new solutions can be rolled into the entire fleet of aircraft.

The 777X award also highlights several of Rockwell Collins' characteristics that differentiate us in the marketplace and helped make this achievement a reality: strong, collaborative customer relationships; a constant drive to provide state-of-the-art products and services; and our responsive, reliable customer support.

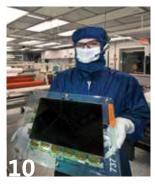
In this issue, you'll also read several articles prompted by employees who have shared stories about how they're listening to our customers all over the world and working with them on solutions that meet their most critical needs. As a result, we're not just viewed as another supplier, but as a trusted partner.

Moving forward, we must continue to stay engaged with our customers. The result will strengthen the momentum we're building in the marketplace and drive business growth for both our customers and Rockwell Collins.

Kelly Ortberg
CEO and President

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Rockwell Collins has major avionics content on all three of Boeing's family of next-generation airplanes, including the new 777X.



On the back

This ad, introducing our TruNet solution, recently appeared in several military publications, as well as in programs at defense and security expositions.

comms network tailorable to your mission needs

The first ground-air



A magazine for the employees and friends of Rockwell Collins

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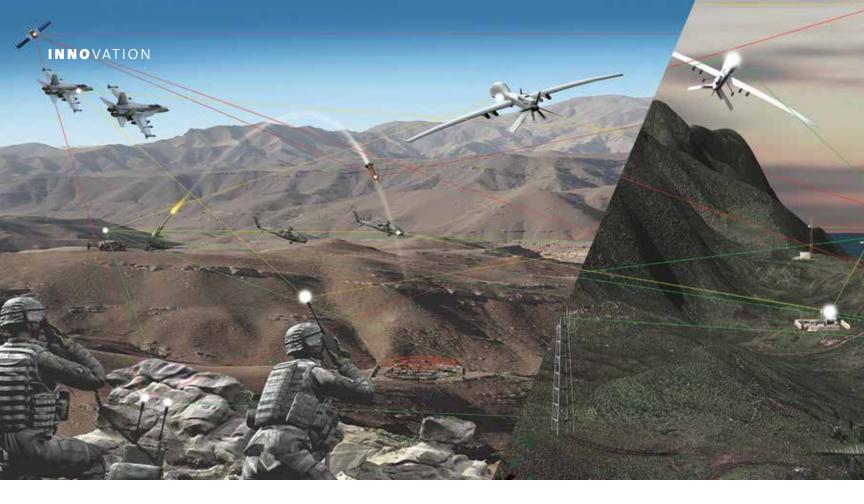
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Introducing a *tru-ly* innovative family of radios

A new design approach leads to an advanced ground-air networked communications solution.

Jennie Fredin and John Thedens have spent most of their Rockwell Collins careers in Government Systems (GS) communications. Fredin, a senior engineering manager, has been involved in building airborne radios for more than 15 years while Thedens, a technical project manager, has spent the last 10 years working on ground-based communications.

The two never crossed paths until they became part of an engineering team formed almost two years ago to design the next generation of Rockwell Collins radios. Today, that team of more than 150 includes those with ground and airborne communications expertise, as well as systems, software, hardware and test engineers.

All these skill sets are needed for the development of $TruNet^{TM}$ — a new family of networked software-defined radios (SDRs).

"This is a pretty new approach for us," said Fredin.
"Typically, we build a specific radio for one specific customer. Now we're building radio solutions that interoperate across both ground and air and for domestic and international customers. That's something we've never done in the past, and it's exciting."

There's also a sense of pride among the team members to be collaborating on this ground-breaking program, added Thedens.

"These networked radios are the future," he said.

"We're taking a lot of pride in being on the ground floor of this new solution that will be around for the next 10 to 20 years and being able to contribute to accelerating our company's growth."



First to market

Drawing on our company's product depth and expertise in delivering tactical radio comunications, TruNet™ enables information to move securely in a way that hasn't been available before, according to Tom Schamberger, a principal marketing manager in GS Communications and Navigation Products.

The solution bridges a gap that exists today between ground and air communications, delivering the first fullyintegrated and interoperable ground-to-air, ground-toground and air-to-air communications network.

"TruNet enables warfighters to securely share critical data, image, voice and video communications in real time across all domains," said Schamberger. "This gives military personnel a big picture of the battlespace and the flexibility to respond as the mission changes."

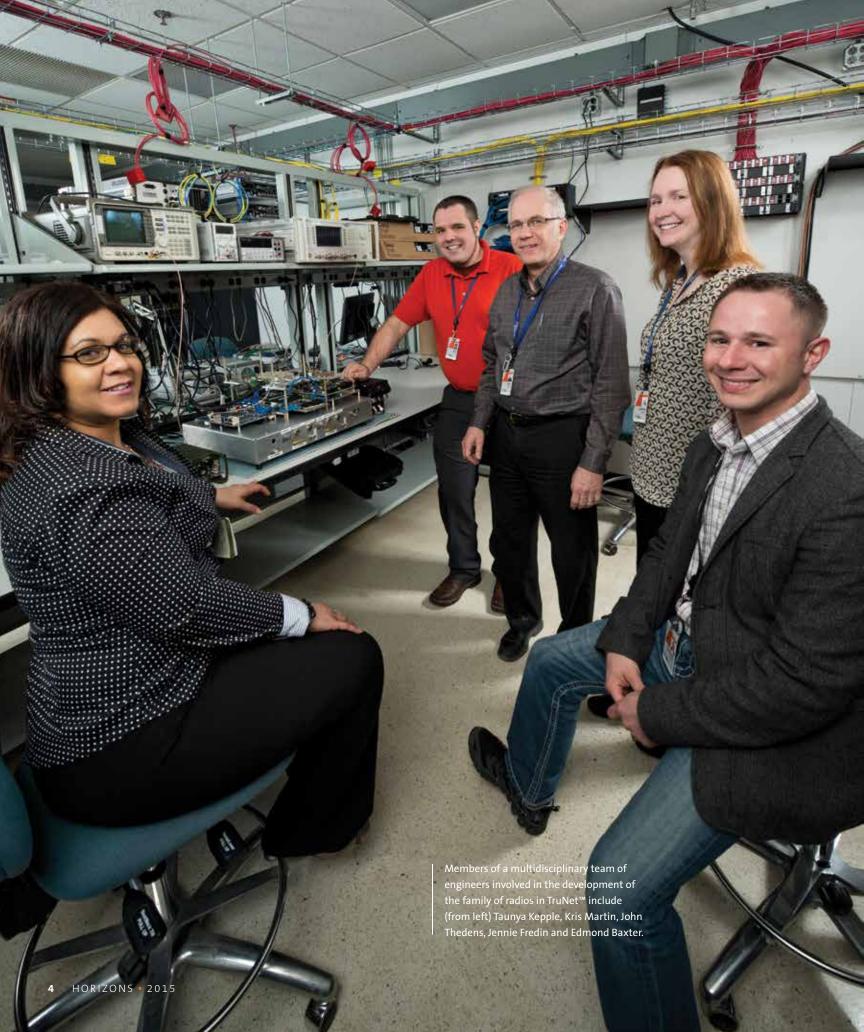
Government customers also are looking to reduce their large, diverse and costly product pipeline, Schamberger added. With our family of radios, customers can have a minimal set of radios that provides an entire ground-air package.

In addition to the military market, TruNet also has applications in the civil arena. The secure network communications and interoperability features can aid civil agencies supporting homeland security and first responder disaster relief.

The family of radio products in the TruNet solution includes a two-channel ground radio and single-channel and two-channel airborne radios. A handheld radio is being developed through a teaming alliance with Thales Defense & Security, Inc. (TDSI).

A big challenge in creating a solution across the ground and air domains has been maintaining useful technologies in both without over-burdening either one, said Thedens.

"Because these are networked radios, new functionalities are being incorporated," he said. "It requires a lot of collaboration and communication at all levels of the team. No one can make a decision in one area without potentially having an impact in another, so we have a structure in place to make sure any decisions that are being made are well-coordinated across the whole team."



"It's an important growth driver in our GS communications business. The ground and air software-defined radio markets are growing globally, and we want to participate in that growth..."

Mike Jones, vice president and general manager, GS Communications and Navigations Products

To make crucial decisions quickly and help the team be flexible to respond to market changes, an engineering review board (ERB) was created. Made up of engineers and program and marketing managers, the ERB reviews everything that goes into the radios and guides the program roadmap in terms of what capabilities should be introduced now and what technologies can wait three or five years.

Customized to meet customer needs

A key technical innovation that is a market differentiator for TruNet takes advantage of the software-defined nature of the radios. The radios, which can support a variety of legacy and next-generation internet protocolbased (IP) waveforms, enable international customers to program their own waveforms and secure cryptography within our platform. Alternatively, we can provide custom programming at our international facilities to meet the unique needs of the local customers, according to Kurt Grigg, marketing and business development director in GS Communications and Navigation Products.

"That capability is totally new to the market, and we're the first to do it," he said.

In addition to a different design process for this platform, the GS communications business also implemented a market-based approach that is no longer program-driven. Instead, it is driven by the global market. Grigg said that's in response to a changing environment in the international military market space.

"What we're seeing is a desire from governments for more commercial off-the-shelf products or Non-Developmental Item (NDI) models," he said. "Defense spending budgets are under pressure in many countries. With NDI, governments aren't paying for research and development. Rather, that investment is company-funded."

Under the market-based approach, domestic and international requirements were gathered to determine how to best build a family of radio products to serve the needs of customers around the world.

"We paid special attention to developing international variants that we believe are exportable and should enable our international teams to do work on this platform in-country," said Grigg. "As a result, we are able to introduce both domestic and international radios at the same time. In the past, the international community would have had to wait several years before getting their products."

According to Mike Jones, vice president and general manager, GS Communications and Navigation Products, another competitive advantage to our solution is that it will be offered at a cost-competitive price.

"Our approach has been to differentiate our solution by offering high quality, high performance networked radios that are priced competitively in the marketplace," he said.

Positioned for growth

TruNet was launched to the market this spring. Customer demonstrations will take place this summer. Production of the radios will predominately take place in Cedar Rapids, lowa, and is expected to begin in 2017.

Jones said our company's commitment to the development of this next-generation radio system aligns with our strategy to accelerate growth.

"TruNet is an important growth driver in our GS communications business," he said. "The ground and air software-defined radio markets are growing globally, and we want to participate in that growth. And by having a solution that's expandable, we are in a good position to take advantage of future opportunities as they come up." •

By Annette Busbee

A better way to train

New research reveals the benefits to the U.S. military of integrating live training with virtual simulation.

Embedded with the U.S. Army's 173rd Airborne Brigade Combat team in the Kunar Province of northeast Afghanistan, U.S. Air Force Staff Sgt. Travis Klopfenstein hunkered down beside the Army ground commander he was assigned to support.

As the Tactical Air Control Party (TACP) member and Joint Terminal Attack Controller (JTAC), Klopfenstein's role during this particular tour of duty was to communicate with and direct the action of the combat aircraft sent to provide close air support.

Although Klopfenstein — now a principal account manager at Rockwell Collins' Simulation and Training Solutions (STS) facility in Orlando, Florida — was well-versed in his liaison role, this was the first time he had worked with a French Mirage fighter pilot.

"I had PowerPoint knowledge of the capabilities of the Mirage, but I had never worked with a French pilot before," said Klopfenstein, recalling the 2008 mission in the Kamdesh Valley. "I never had a chance to train with a French Mirage or

pull it up in a simulator, and there I was in a combat scenario talking to the pilot for the very first time."

Situations like the one Klopfenstein found himself in — coupled with continued U.S. Department of Defense (DoD) budget cuts and the rapidly evolving nature of warfare — are why Klopfenstein and his colleagues at Rockwell Collins are encouraging military officials to reassess how their personnel are trained.

"We're not in the days of old where we're sending in quantities of troops on the ground," said Klopfenstein. "It's very coalition-centric and more strategic and precise than ever before. Precision itself means you've got to be tightly correlated, you've got to have tight communication and everybody needs to know what the other person is doing in order to have mission success."

Klopfenstein believes this scenario is made for virtual simulation.

Realistic and affordable solution

Earlier this year, Rockwell Collins unveiled new research regarding the potential benefits associated

Travis Klopfenstein, a principal account manager at our Simulation and Training Solutions facility in Orlando, Florida, uses a simulated laser range finder to locate a target during a recent training demonstration. He then sends that targeting information to the real L-29 jet (see photo next page) via our networked joint fires software, and the L-29 can then conduct a live attack run on the simulated target.

with the integration of virtual simulation into U.S. military training regimens.

Funded by our company and conducted by the Government Business Council (GBC), the research — "Going Virtual to Prepare for a New Era of Defense" concluded that increasing levels of virtual training can help the U.S. military better prepare for new challenges while potentially reducing costs by more than \$1.7 billion over five years.

"This research has uncovered some remarkable data that underscores the value of blending live and virtual training," said LeAnn Ridgeway, vice president and general manager of STS in Sterling, Virginia. "It also validates our company's efforts to expand the capabilities of simulators and explore how the military can make the best use of available live flight hours, given the impact of budgetary realities."

According to Nick Scarnato, director of Marketing and Business Development for STS, Rockwell Collins customers - including the DoD - have been wanting to "train like they fight" for many years. However, the ability to do so requires a great deal of time and money, both of which have been hindered by recent global economic constraints.

"I think everybody understands the notion that it's more cost-effective to do virtual or constructive exercises than it is to do live training," said Scarnato. "But not everybody is on the same page as to the readiness level that virtual and constructive training provides. There is still a broad range of military leaders who don't believe training in a simulator looks, feels or acts the same as training in a real aircraft."

To illustrate and underscore the fact that our company is well-suited to blend those trainings to provide customers with a realistic and affordable solution that meets their needs, Rockwell Collins recently conducted a Live, Virtual, Constructive (LVC) simulation and training exercise in Sterling.

Engineers from STS and our Advanced Technology Center (ATC) led the demonstration that featured a real L-29 jet from The University of Iowa's Operator Performance Lab that was equipped with LVC simulation technology. In this scenario, the L-29 in Iowa flew as the lead aircraft while its wingman flew an F/A-18 simulator in Sterling. Klopfenstein also was in Sterling



Tom Schnell, director of the Operator Performance Laboratory at The University of Iowa, pilots an L-29 jet equipped with Live, Virtual, Constructive (LVC) simulation technology during a recent training exercise. The University of Iowa and Rockwell Collins have collaborated on several LVC training demonstrations, studies and contracts.

and participated as the JTAC, generating targeting information from our Litening Targeting Pod simulator.

"Connecting live and virtual players, bridging the gap across distance and time, and reducing errors through training is what this is all about," said Ridgeway. "We want to bring the men and women protecting our freedom back home to their families."

More work to do

Rockwell Collins has been demonstrating "train like you fight" training scenarios for the warfighter for the past four years during the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC). However, this is the first time that our company has solid data indicating the demand for and benefits of blending live and virtual training.

"We're working hard to solve problems for our customers, and this study is generating a lot of excitement and momentum around bringing this to fruition," said Dr. Angus McLean, a principal systems engineer in ATC. "We're taking today's technology and using it to show what the next generation of 'train like you fight' will look like."

According to Scarnato, the fact that Rockwell Collins brings so many different innovative solutions to the marketplace — more than core avionics and core communications — is what differentiates our company and is helping us stand out from our competitors.

"We're also a provider of simulation products such as Image Generation Systems, Visual Display Systems,

Radar Simulation Systems and Sensor Simulation," said Scarnato. "And our Surface Solutions portfolio — which is in our Government Systems business — delivers data link technology and secure communications.

"Additionally, we have ATC working to ensure all engineering resources are focused on a common goal. So, this is a collaborative effort across the entire enterprise," he continued.

Despite the progress that's being made, Ridgeway admits there are still a few key technology gaps that need to be addressed to move LVC forward sooner rather than later. The most notable gaps are around the need for multiple levels of security, very high speed data link capabilities and cyber security.

"You've got to be able to have channels of communication moving all of this information from platform to platform, air to ground, vehicle to vehicle, and you've got to be able to separate and keep those communication lines secure," she explained. "We also live in a data-rich environment, so we need to have the ability to move that data across the pipeline faster than ever before. And we need to ensure the wrong people can't hack into those networks."

Ridgeway said Rockwell Collins and the aerospace and defense industry as a whole are working to close those gaps while also establishing an open architecture in which all armed forces can plug-and-play together in the training environment.



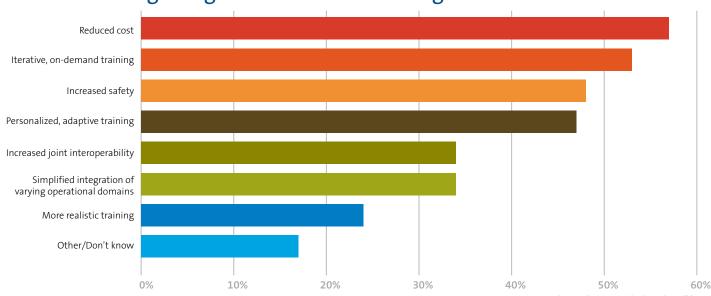
Rockwell Collins conducts demonstrations linking our flight simulator on the ground with a live aircraft operating in Federal Aviation Administration airspace. In this photo, Loyal Pyczynski, a principal marketing manager in Simulation and Training Solutions, sees the live aircraft from the pilot's seat on the simulator. In turn, the pilot of the aircraft sees the flight simulation via a Link 16 or a radar track. With our technology, both pilots can exchange digital messages and practice flying various missions.

For Klopfenstein, the path forward is exhilarating. He relies on his personal experiences to communicate the importance of providing a training environment that replicates what warfighters will experience in combat. It's a mission he takes to heart.

"We all share the same training vision. In the back of our minds, we keep the stories of the soldiers who sacrificed so much. These men and women gave their lives for what they believed in," said Klopfenstein. "We want to give our warfighters the best training possible so they accomplish the mission and get home safe."

By Jill Wojciechowski

Benefits of integrating live and virtual training



Source: Government Business Council Survey

Border watch

Rockwell Collins' ARINC Border Management System helps governments better monitor air travelers entering their countries.

Rockwell Collins' ARINC Border Management System (ABMS) is quickly becoming recognized as a leading technology for assisting governments in better monitoring who enters their countries. The goal, of course, is to increase security. The solution provides analysis and deciphering of Advance Passenger Information (API) data, which is required for the millions of people traveling via commercial aircraft to or from more than two dozen countries.

ABMS enables government and airport authorities to review passenger data before a commercial aircraft takes off or lands by using the API data, along with Passenger Name Records (PNR) and watch lists. ABMS gives government entities the information they need to make informed decisions about every traveler. The system links the data with controlled entry and exit procedures to stop travelers at the border, deny boarding when necessary, and track travelers during their time in-country.

According to Ken Schreder, managing director of Networks and Managed Services, this not only enhances overall border security and control, but optimizes passenger flow.

"Many governments want increased insight into the people and goods that are coming into their countries,"

said Schreder. "This solution enables them to do that — combining traditional border control with the enhanced ability to identify anyone who might present a risk to the country."

Today, more than 25 government entities around the globe use our ABMS solution, including several recent customers in Latin America and Asia.

According to John Kim, senior program manager for Network Solutions, more and more agencies are depending on API data, creating increased opportunities for our solution in the marketplace.

"Within individual countries, intelligence agencies need it, as well as immigration and customs departments. It's changing how we market and sell this solution around the world," said Kim.

Both Kim and Schreder say they see potential for applying ABMS to other modes of transportation such as trains and cruise ships.

"Very few companies can compete with our secure, managed network and the adaptability of this product," said Schreder. "The future of ABMS looks very bright as we continue to offer enhanced features and capabilities."

By Megan Strader

Triple win The new 777X is the third airplane in Boeing's nextgeneration fleet to feature Rockwell Collins' flight deck solutions. () BOEINE

Almost two years before Rockwell Collins was awarded the major flight deck contract for Boeing's 777X aircraft, preparations began at our Manchester, Iowa, facility for the possibility that we would win the program.

The Manchester facility is our manufacturing Liquid Crystal Display (LCD) Center of Excellence, and planning was already underway for the production of large-format flight displays for Boeing's 787 Dreamliner and 737 MAX.

According to Derek Owen, a senior operations product transition manager, the scope of those preparations was broadened to include the 777X.

"We utilized lean tools to free up floor space where the displays for the 777X would be built," said Owen. "We also spent a significant amount of time driving process and design improvements and reviewing the critical details of this product to ensure all aspects of the value stream were optimized for superior customer satisfaction."

When Rockwell Collins received the award for the 777X in December 2014, the approximately 250 employees in Manchester were excited and ready.

The production rate of the large-format displays for all three of Boeing's next-generation aircraft will slowly increase until 2017. Then, the numbers increase dramatically to approximately 305 a month in 2018.

"When we deliver our first large-format displays for the 777X in a few years, we'll be reaching full-rate production for the 787 and 737 MAX," said Owen. "We'll be prepared to handle it."

Building on a trusted partnership

Winning the 777X award not only generated excitement in Manchester, but throughout the enterprise, as well.

Rockwell Collins now has major content on all three of Boeing's family of next-generation airplanes. This achievement is part of a larger strategy to accelerate our company's growth by increasing our market share on new air transport platforms, according to Steve Timm, vice president and general manager of Air Transport Systems.

"The award speaks to the strength of our trusted partnership with Boeing," said Timm. "By supporting this customer and innovating to solve problems, we've been able to build on our partnership in a way that will provide long-term benefits to our company, our employees and our customer."

The 777X aircraft will feature five configurable 15.1inch landscape LCDs, our integrated surveillance system, and select flight controls as standard equipment. And for the first time on a 777 platform, our dual Head-up Guidance System (HGS™) will be offered as an option.

In addition to the flight deck content, Rockwell Collins and our partner, BAE Systems, were selected to provide the entire fly-by-wire flight control electronics system. Together, these awards rival the content we provide Boeing for the 787 and triple the amount of supplierfurnished equipment we have on the 777X compared to previous generations of the airplane.

The awards also represent a significant market share gain for Rockwell Collins, Timm said, potentially worth approximately \$2 billion in sales for our company over the life of the program.

The pursuit strategy

Landing the flight deck award was approximately a two-year process and involved countless individuals in Commercial Systems. According to Bob Schultze, a principal programs manager for Boeing platforms and a member of the pursuit team, the aircraft manufacturer wanted a mature, updated avionics system that wouldn't be a burden or a high risk to the program.

"One way to accomplish that would have been to reuse and upgrade the existing system that's on the legacy 777," said Schultze. "Our challenge was to help Boeing realize the best solution for the 777X was to use our architecture that's on the Dreamliner."

The pursuit team frequently traveled to Boeing's facility in Everett, Washington, to meet face to face with the company's engineering and procurement agents. Key to our pursuit strategy was to clearly define the value of the commonality Rockwell Collins would bring from the 787 to the 777X.

"We would update our technology that's on the Dreamliner for the 777X," said Schultze. "But our solutions also would be common to the point that there would be combined value across the two platforms, as well as with the 737 MAX. We needed to illustrate the dramatic cost savings that would be achieved with common processes and procurement. Plus, any future product enhancements could be rolled easily into all three platforms."

Additionally, Boeing's customers would realize savings with common spare parts, equipment, maintenance and pilot training time on all three aircraft, keeping the airplanes in the air and making money.

Schultze said it was a great moment for him when he received the news that Rockwell Collins had won the 777X award.

"It speaks to the faith Boeing has in Rockwell Collins," he said. "Now we need to execute and deliver what we promised."

For Mark Fejfar, avionics engineering lead on the 777X and a member of the pursuit team, winning the flight deck contract presents the greatest opportunity in his 28-year career at Rockwell Collins — the ability to innovate advanced solutions for an entire fleet of aircraft.

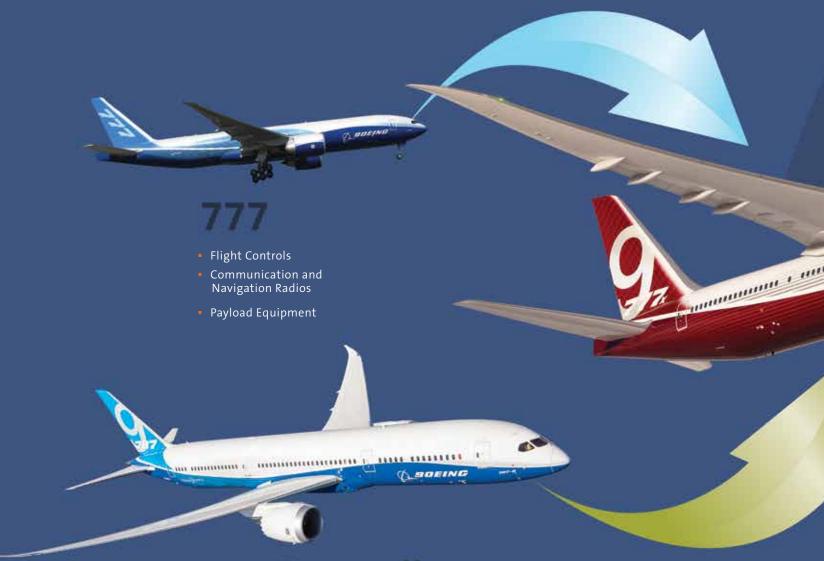
According to Fejfar, barriers that typically occur when aircraft have different types of displays or user interfaces are diminished or eliminated when you have flight deck commonality.

"By having that common vision and design, we can work with Boeing to develop the next great innovation that can aid pilots or enhance passenger safety at a fleet level," said Fejfar. "That's very exciting."



Flight deck commonality...

Rockwell Collins is advancing mature technologies from previous Boeing aircraft for the 777X.



787 Dreamliner

- Displays and Crew Alerting System
- Pilot Controls
- Integrated Surveillance System
- Audio System
- Head-up Guidance System (optional for 777X airline customers)

an uncommon advantage



MAX Display System

Communication and Navigation Radios

Focus on quality

Teams across Rockwell Collins are involved in developing and producing our solutions for the 777X. For example, display components and graphics are being developed at our Head Down Display Center in Cedar Rapids, Iowa; the integrated surveillance system at our facility in Melbourne, Florida; the Head-up Guidance System in Wilsonville, Oregon; and the pilot control center pedestal in Tustin, California.

Facilitating collaboration and communication across all the life cycle value stream (LCVS) teams involved with this program is a major focus for Nic Jaeger, principal program manager for the 777X. That is key to keeping our momentum with this customer.

"We've worked hard to establish a trusted partnership, but there's more to be done to continue to improve from a customer satisfaction perspective," said Jaeger. "We strive to get it right the first time so there's no disruption in deliveries to the customer."

Delivering quality products on schedule is critical to helping Boeing achieve its production numbers. To date, the aircraft manufacturer has 300 orders and commitments for the 777X. Production is scheduled to begin in 2017 with first deliveries scheduled for 2020.

"We must execute flawlessly at every stage of this program," said Jaeger. "And we have some of the best employees in the world to do that because they care about quality."

That includes our employees in Manchester. It's been nearly 62 months since Manchester has had a facility-caused quality escape to an end customer. With the ramped-up production schedule ahead, Owen said employees are even more focused on improving their processes so that they can execute flawlessly.

"We're privileged to be part of the 777X program and, like everyone at Rockwell Collins, we're excited about what this means to the growth of our company," he said.

By Annette Busbee

Our evolving fly-by-wire technology

The 777X fly-by-wire award comes after decades of leadership and innovation in flight controls.

When Boeing selected Rockwell Collins and BAE Systems to provide the fly-by-wire system for the 777X, it marked a significant business achievement and an important technological milestone for our company.

Fly-by-wire replaces mechanical flight controls — typically consisting of pulleys, bell cranks and cables — with wires. The benefits include weight savings, increased performance of the aircraft and reduced pilot workload, according to Bruce Dalton, a principal program manager in Flight Control Electronics.

"With wires, more surfaces of the aircraft can be controlled via the computing system without pilot input," said Dalton. "This enables the aircraft to react instantly to changing aerodynamic conditions providing a smoother ride and enhanced safety."

Rockwell Collins is designing the Flight Control Module (FCM) for the 777X fly-by-wire system. The FCM hosts our state-of-the-art computing system for all the applications of the Integrated Flight Control Electronics (IFCE). This includes the autopilot/autoland and the maintenance for the flight control systems designed by Rockwell Collins. It also includes the software designed by BAE Systems, the prime supplier for the IFCE.

A comeback

Surprisingly, a key reason that we won the 777X award might have been due to a contract we didn't get. In 2004, Rockwell Collins was not selected to deliver the flight controls on Boeing's 787 Dreamliner.

With the 787, Boeing integrated all flight control functions into one computer, according to John Roltgen, a technical project manager and Fellow in Flight Control Systems. Although our computer processors at that time were great for high-integrity applications, the extensive and complex flight control functions that this computer would have to host required a significant increase in throughput to those processors.

"That was not cost-effective with our technology at that time," Roltgen recalled.

As a result, a strategic decision was made by Rockwell Collins to invest in the development of innovative, high-integrity computing platforms for flyby-wire. The Flight Control Electronics team in Cedar Rapids focused on a concept for using two, dissimilar off-the-shelf processors to handle the intricate flight control functions. Our engineers created a technology that enabled the processors to produce exactly the same digital outputs, thus ensuring a safe operating system. This avoided extensive engineering efforts required in prior systems to get the outputs of the two processors to closely agree.

"This innovation was a market differentiator for us," said Roltgen. "Our legacy in flight control and avionics systems positioned us to introduce this technology to the market."

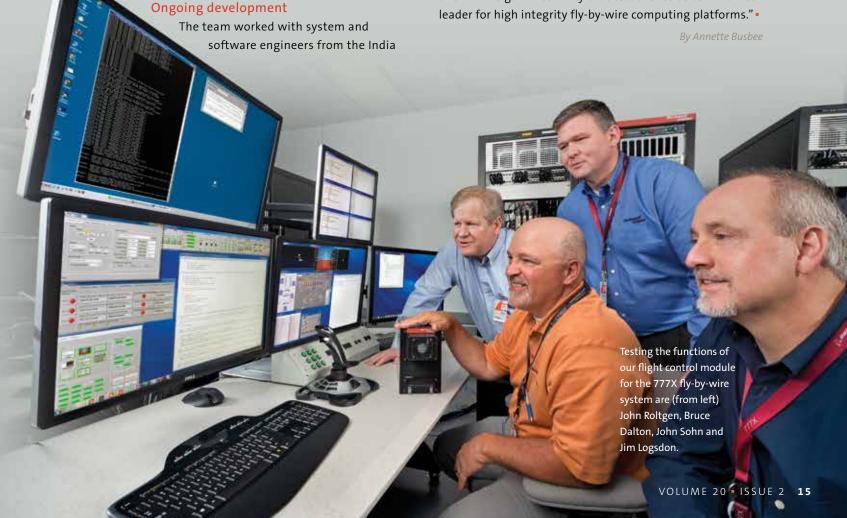
Success came in 2008 when Mitsubishi Heavy
Industries selected our Primary Flight Control Computer
(PFCC) for the fly-by-wire in the Mitsubishi Regional Jet
(MRJ). Two years later, Bombardier chose our PFCC for the
fly-by-wire system in its CSeries regional aircraft.

Design Center in Hyderabad on development of the advanced system for the MRJ and CSeries airplanes. One of the benefits of this teaming arrangement capitalized on the time zone difference between the two locations. By transferring time critical tasks between the two facilities, engineers were able to work on the project a full 24 hours a day to meet development deadlines.

"We continued to build on the technology in those regional aircraft to develop the FCM for the 777X," said Roltgen. "We added additional input/output capability to handle the common data network that manages the information flow. And we enhanced the computational capability. As a result, our solution supports Boeing's goal of a 777X aircraft that saves fuel and optimizes performance even through challenging environments."

This award solidly positions our company for future fly-by-wire flight control electronics business on all classes of commercial aircraft, according to Sam Ezran, director of Flight Controls.

"Fly-by-wire will be the flight control system of choice for all large, new air transport aircraft," said Ezran. "With this win we gain credibility that establishes us as a market leader for high integrity fly-by-wire computing platforms."



Big business in low-cost carriers

With a spike in the number of low-cost carriers across the globe, Rockwell Collins has found a winning strategy for capturing this business.

When it comes to purchasing an airplane ticket, most people want to find the best value for their money. That's the impetus driving the booming worldwide low-cost airplane market. It's also part of the strategy Rockwell Collins is using to win major contracts with these airline companies.



Jim Walker

Jim Walker, vice president and managing director of Asia Pacific for Rockwell Collins, sits in the epicenter of this bustling market. With more than half of the world's population and a burgeoning middle class, low-cost carriers (LCCs) are thriving in countries like China, Indonesia and India. And Rockwell Collins has been able to capitalize on the growth of LCC airlines in this region.

"We've learned that winning contracts with these airlines boils down to one of the most basic elements of sales — offering the best value for the money," said Walker. "Our products are regarded as top in this market, so lowcost carriers know they're getting quality solutions."

And with commercial airline traffic rapidly expanding in the Asia Pacific region, these airlines understand the need for proven, advanced communication, navigation and surveillance avionics, Walker added.

Numerous low-cost airline companies have selected Rockwell Collins to provide our avionics, weather radar and navigation solutions. One of the largest orders in our company's history came last year from Indonesia's Lion Air. This LCC selected a comprehensive suite of our avionics for 234 of its Airbus A320 aircraft, including the MultiScan™ Threat Detection System and the GLU-925 Multi-Mode Receiver (MMR), the first GPS Landing System receiver. Earlier this year, India-based airline, IndiGo, also selected our advanced avionics systems with MultiScan Threat Detection System and MMR for its Airbus A320neo (new engine option) family of aircraft.

Aftermarket services are key

In addition to quality products, our low-cost airline customers also realize value from our aftermarket services, according to Walker. They pay close attention to how companies, such as Rockwell Collins, are ranked on



customer support surveys like those issued by original equipment manufacturers (OEMs) Boeing and Airbus.

In 2014, Boeing named Rockwell Collins the number one aftermarket supplier. Similarly, Airbus gave our company its "Gold" award — a recognition for best inservice performance. Walker noted that these recognitions are due, in part, to team members who are taking care of our customers.

"We have support engineers around the globe working alongside these airlines to keep their planes in the air," said Walker. "These engineers are building strong relationships at the same time. That's another key differentiator for Rockwell Collins that has helped us be successful in this market."

Strong market outlook

The LCC market isn't only thriving in the Asia-Pacific region, according to Colin Mahoney, senior vice president, International and Service Solutions. Globally, LCCs make up nearly a quarter of the worldwide market share versus full service airlines. These numbers are even greater in EuMEA (Europe, Middle East and Africa) where LCCs make up nearly a third of the market. Last year, Spain-based Vueling Airlines chose a host of Rockwell Collins avionics for its new fleet of 62 Airbus A320 aircraft.

In the Americas region, our company's avionics were selected by Mexico-based VivaAerobus for its 52 new Airbus A320 airplanes.

"We expect to compete for more than a billion dollars of buyer-furnished equipment this year — one of the biggest competitive environments we've seen," said Mahoney. "Of that billion dollars, we expect a third will be with low-cost carriers."

And while Mahoney said he doesn't expect the number of planes being purchased by LCCs to continue at its current rate, many of the carriers are choosing to buy or lease airplanes based on warranty periods to save money on repair costs. This creates revenue potential because once the warranty expires, the aircraft is sold or returned to the owner from whom it's leased and replaced with a new plane and a new warranty.

Mahoney said our focus today is on how to keep Rockwell Collins at the top of the LCC market.

"The market isn't new but there's more at stake than ever before. There's more hunger in our competitors which means we need to fine tune our strategy," said Mahoney.

That includes building even closer affinities with these customers and clearly articulating the Rockwell Collins value proposition.

"The demand is there and so is our drive to continue to win the business," added Mahoney.

By Megan Strader



Celebrating innovative achievements

Engineers at Rockwell Collins who have made significant contributions to our company through technical creativity and innovation are recognized annually through our Engineer of the Year Program. The stories of our corporate winners and finalists, who were nominated by their peers or leaders, showcase leading-edge products and technologies that are creating competitive differentiation in our global marketplace and accelerating our growth.

ENGINEER OF THE YEAR WINNER

Carlo L.M. Tiana

Commercial Systems

Fresh off a previous Engineer of the Year nomination for his work on another vision-system program, Principal Systems Engineer Carlo Tiana was already taking his inventiveness somewhere new.

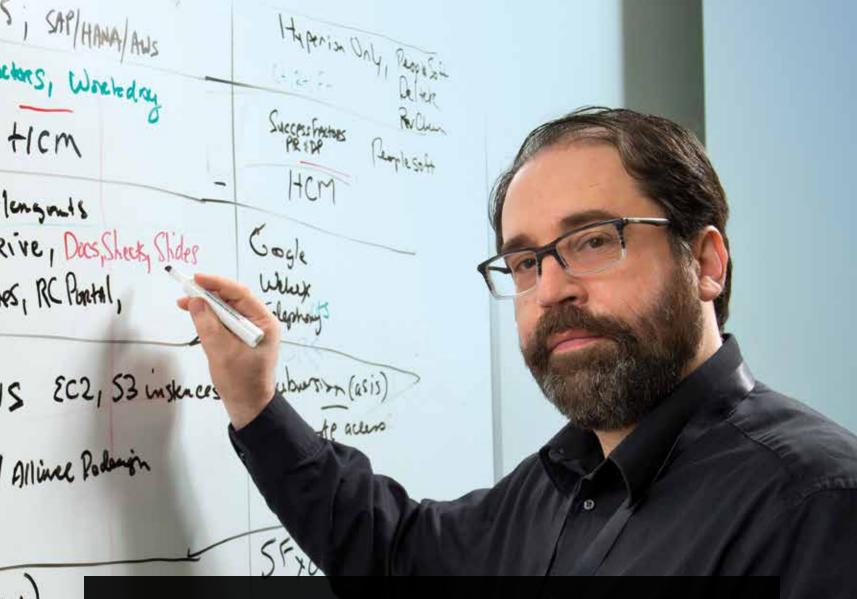
This time, his nomination comes from his contributions to the Enhanced Vision System (EVS). An EVS camera detects infrared energy given off by many elements on the landscape a pilot encounters during the landing phase of flight. The camera can capture the infrared signatures of terrain, buildings, vehicles, runway lighting and even wildlife that might have wandered onto a runway. The system then portrays these signatures on the head-up or head-down display as a clear, real-time image of the approach and landing environment.

On a head-up display, the EVS image can replace the pilot's natural vision, overlaying an image of the outside world. Pilots can "see through" low visibility during one of the most critical flight phases.

"Passengers on EVS-equipped aircraft will be able to get home when the weather is bad, instead of diverting to another airport," Tiana says.

His work leading the research and concept development and design of EVS will benefit passengers, pilots, aircraft owners and airlines. The new EVS product line has the potential to generate significant annual revenues for Rockwell Collins over the next decade. Meanwhile, Tiana continues to look for new ways to leverage Rockwell Collins technologies, including combining weather radar with synthetic vision to enable visual landings in the worst weather conditions.





ENGINEER OF THE YEAR WINNER

Timothy J. Smith

e-Business

Rockwell Collins' e-Business had a call to action to transform the way employees collaborate around the world. With full leadership support, the e-Business team looked at alternatives in this major undertaking. Timothy J. Smith, or T.J., was the enterprise architect for this new path.

"T.J. thought about the problem differently," says Michelle Bates, director of IT architecture services. "In the past, we would have applied traditional technologies with traditional service providers."

To Smith, falling back on tradition meant falling behind as a company. It was time for something completely new. Employees used consumer technologies as a daily part of their lives outside the company. Why not give them a way to use many of the same technologies inside the company? But it had to work effectively and securely and enable mobility. As an enterprise architect and the principal manager for security architecture services, Smith understood the balance a new service would need to strike.

"We talked to Google and liked what we heard. We also talked with people in our industry and discovered that we would be pioneers in the use of these capabilities," Smith says.

The Global Collaboration and Mobility transformation involved Google Apps for Business, as well as major IT infrastructure and security upgrades. And it's not over yet — more rollouts are coming to give employees more choices than ever about where, when and how they work.

e BU-H

Engineer of the Year finalists



Emmanuel F. Caestecker International and Service Solutions
Caestecker optimized software for Rockwell Collins' next-generation direction finder product line. One notable enhancement included developing a new algorithm that could save more lives by providing 3D bearing indications to search-and-rescue crews.



Nathan P. Lower, Ph.D.

Engineering and Technology
Lower's technical leadership
advanced the ZFAB microfabrication
technology development during a
critical period when several highvalue programs relied on it.
His invention enabled
miniaturized microwave
components with size, weight,
power and cost advantages.



Brent J. Nelson
Commercial Systems
Nelson developed network
software and tool solutions
for Pro Line Fusion® programs,
notably for the King Air. His work
helped greatly reduce network
configuration and certification
costs, which will positively affect
as many as 14 future Pro Line
Fusion programs.



Commercial Systems
The Boeing 737 MAX Display
System that Corbett architected
delivers advanced capabilities
while reducing complexity and
enterprise-wide program costs.
Reusability of these technologies
was a key factor in our Boeing
777X display program win.

Matthew P. Corbett



Terrence P. Ward
Information Management Services
Ward architected two key features of our ARINC AviNet® global messaging system: Virtual Application Message Queuing and the Aviation Message Router. These features enable delivery of application software modules and queuing elements to a customer site or ARINC cloud, reducing cost and deployment times.



Bobby D. Foote
Government Systems
Foote led key initiatives on
projects related to digital night
vision, colorized night vision
and helmet mounted displays.
His work advanced capabilities
in these areas, including
next-generation technology
development for the F-35 Gen III
Helmet Mounted Display System.



Government Systems
Wenthe's persistent drive
for excellence improved the
accuracy of the Time, Space and
Position Information module in
our Common Range Integrated
Instrumentation System (CRIIS).
Her tenancious contributions
enabled CRIIS to meet stringent
requirements for weaponsystem testing and training.

Kathleen R. Wenthe

Developing talent and future leaders

Formal and informal job rotation programs are building new perspectives and helping employees find the right job fit.

The job descriptions read like recruitment materials for an international league of superheroes:

"Searching for new additions to join our team located throughout the world... The ultimate goal is to develop talent... The knowledge is open to those who have a strong desire to test the limits of their potential..."

And the work locations wouldn't suggest otherwise: Singapore. Hyderabad, India. Heidelberg, Germany. Reading, England. Sterling, Virginia.

But these job descriptions are for positions in Rockwell Collins' various job rotation programs.

And they're attracting some of the brightest minds in the company.

Walker McBride

Walker McBride knows his rotation program, and he speaks the language with enthusiasm.

"The Operations Rotation Program is a formal development program designed to build future leadership strengths for Rockwell Collins," he recited verbatim.

McBride joined Rockwell Collins in June 2012 as an undergraduate intern on the procurement team where he assisted with build-to-print request for proposals and purchasing test equipment.

"Coming out of my internship, I knew I wanted to find the type of work I was passionate about," he recalled. "You just don't know that right out of school. I think this program will help me discover that."

Finding the right career path

McBride, now on rotation as a manufacturing project specialist in Richardson, Texas, is not alone in his thinking. And Rockwell Collins is adapting to that sentiment to ensure the personal and professional growth of our employees and to strengthen the company's workforce as a whole.

The challenge is replacing the large number of baby boomers who are retiring. By 2020, 18 percent of our workforce will have turned 62 and be eligible for

retirement. This creates the need to recruit, train and retain talented employees.

According to Beth Regan, a senior global mobility specialist in Human Resources, job rotation programs can help meet that need.

"As a company, we recognize that attitudes about work are changing," said Regan. "People want to find the career that's right for them. And they want to do it by 'experience hopping' — trying out lots of different jobs in different locations. Through a job rotation, they can try out several positions across the United States — and around the world — without leaving the company."



Systems; and Duane Sadler, vice president and controller, Government Systems.

These programs have been very successful and are available across the enterprise. At the India Design Center, employees use their rotation program to share specialized knowledge and build face to face, cross-cultural relationships. In the Europe, Middle East and Africa (EuMEA) region, participants rotate around a number of facilities in France, Germany and the United Kingdom to share best practices and develop connections with colleagues.

Today, the success of these formal programs is leading the way for the creation of more informal ones. For example, in Commercial Systems development is under way for new rotation roles in Marketing and Customer Support.

"It's purposeful growth for employees across the enterprise," added Regan.

Erin Eggum can tell you a lot about purposeful growth. She can quickly offer a short list of skills she's gained in the Finance Job Rotation Program: analysis, strategic thinking, forecasting, project management and converting data to information and insights.

She also took full advantage of one of the program's more exciting perks — living and working internationally.

"Working in Finance in Reading was such a great opportunity to learn about our international business and interact with employees across several different time zones and cultures," said Eggum, who is in the last year of her rotation working as a financial analyst in Cedar Rapids, Iowa. "I learned to communicate effectively, ask clarifying questions and be flexible and adaptable. That's been valuable in my current role working with colleagues in the United Kingdom and Australia."



Eggum and McBride agreed that their rotations helped them understand how the business units are interconnected within the company.

"When you're down in the trenches grinding away on a project, it's easy to stay focused on your own little area," said McBride. "But now I can see that Operations is just one leg of the table and, better yet, I can see how it fits into the entire enterprise."

Plus, he said, the skills and experience gained through job rotation programs are invaluable to professional growth.

"The team and leaders in my rotation have given me opportunities to work on projects that are critical to the success of the organization and have been instrumental in my personal development."

Added Eggum, "You start the program learning to train and be trained. You leave knowing the best position for you to grow your career and, at the same time, use your skills to benefit the company."

Erin Eggum took the opportunity to travel throughout the United Kingdom during her Finance job rotation at our Reading, England, facility.

rotation programs in your organization, contact your leader.



Pro Line Fusion® for helicopters makes its debut

Rockwell Collins' Pro Line Fusion® integrated avionics system entered the commercial helicopter market at HAI HELI-EXPO in Orlando, Florida.

Featuring advanced graphical touch-screen interfaces, intuitive icons and easily configurable multifunction display windows, Pro Line Fusion provides pilots with the right information in the right place. Now, pilots can more naturally and effectively stay focused on the mission during all phases of flight and in all flying conditions.

Acquisition of Pacific Avionics expands information management offerings

Rockwell Collins acquired Pacific Avionics Pty Limited, a Singaporebased company specializing in technologies used for wireless information distribution, including in-flight entertainment and connectivity (IFEC).

Pacific Avionics' powerful wireless cabin intranet and internet connectivity platform will be integrated into Rockwell Collins' portfolio of cabin products and services, bringing airlines a number of advanced capabilities. Those capabilities include the ability to stream video content to more than 250 passengers simultaneously, a flexible architecture to support an array of apps and services, and faster wireless speeds onboard the aircraft.

New ARINC MultiLink[™] flight tracking service introduced

One year after the disappearance of Malaysian Airlines Flight 370, Rockwell Collins has unveiled its new ARINC MultiLinkSM flight tracking service, offering a comprehensive and cost-effective global flight tracking solution for the world's airlines.



ARINC MultiLink merges multiple data sources to provide a comprehensive global flight tracking solution for airlines.

ARINC MultiLink combines information from multiple streams of data already available to airlines — including radar, high-frequency data link (HFDL) performance data, Automatic Dependent Surveillance-Contract (ADS-C) and ACARS — to reliably report the location of an aircraft anywhere in the world. The service also notifies airlines if an aircraft unexpectedly stops reporting positional data or when an aircraft has deviated from its expected path.

ARINC MultiLink will be offered as an add-on to our ARINC OpCenter/WebASDSM and Hermes/Skyview™ services. ■

Rockwell Collins and Zen Technologies enter India's military flight simulation market segment

Rockwell Collins and Zen Technologies announced their joint entry into the military flight simulation market in India by unveiling a next-generation rotary wing simulator at Aero India in Bangalore.

In October 2014, the two industry leaders signed a memorandum of understanding to combine their strengths in simulation and training to offer advanced and high fidelity aviation solutions.

The co-developed helicopter simulator features an ergonomically-designed cockpit. It is configurable and fully addresses both the flight and mission aspects of rotary wing aircraft.

New U.K. search and rescue program features Rockwell Collins avionics

Rockwell Collins' newest helicopter technologies will be featured on a fleet of specially commissioned search and rescue (SAR) aircraft for Bristow Helicopters Ltd. on behalf of the Maritime and Coastguard Agency for the United Kingdom's SAR program. The fleet includes 11 Sikorsky S-92® helicopters and 11 AgustaWestland AW189 helicopters.

The program will be the first to use Rockwell Collins' HeliSure™ flight situational awareness capabilities, such as Traffic Alert and Collision Avoidance and synthetic vision, as well as the latest night vision technologies. ■





Exciting robotics competition at FIRST® World Championship

More than 20,000 students from around the world gathered in St. Louis, Missouri, last month for the 2015 FIRST® World Championship. The event is the culmination of the FIRST season of robotics competitions held throughout the school year.

Rockwell Collins is one of the major sponsors and strategic partners of FIRST (For Inspiration and Recognition of Science and Technology) that promotes science, technology, engineering and math (STEM) education to the next generation of innovators.

CEO and President Kelly Ortberg and Nan Mattai, senior vice president of Engineering and Technology, attended the event. As pictured here, they presented the FIRST Tech Challenge Rockwell Collins Innovate Award to the Philobots team from Austin, Texas.

Service anniversaries

Rockwell Collins offers congratulations to employees who have marked significant service award milestones in recent months.

50 YEARS

APRIL

Colin J. Tschantz

45 YEARS

MARCH

Edward D. Kester

40 YEARS

FEBRUARY

Anita D. Silver

MARCH

Patsy J. Boland Judy A. Hull Alain Lacourarie Delmer H. Yonts

ΔPRII

Homer L. Birdine Michael T. Dupree

35 YEARS **FEBRUARY**

Jan K. Bahnsen Sandra A. Christopher Tho T. Dang Becky J. Dorothy Norene K. Gartelos Sharon L. Hanken Raymond D. Harken Craig E. Harwood Barbara A. Hazelton Jody M. Keleher Dana A. McCarthy

Dean R. Parr Charles A. Pelic Patrice D. Sorenson

MARCH Diane J. Jakoubek Cynthia J. Lenehan Sean M. Martin Linda K. Masteller Lorna J. Rothmeyer Janice M. Ruiz Susan R. Schellenberg Robert J. Scott Scott T. Solyntjes Sharla A. Sutton Michael J. Thome Michael M. Timmerman Man H. Vuong James B. West

APRII

Bradley J. Dunford James R. Gignac **Jacques Pares** Edward G. Silagi Juan H. Trevino Anthony H. Vo

30 YEARS FEBRUARY

Mary S. Boots Flecksing Debra I. Bray

William C. Caldwell Moudjilali Derrar Steve J. Dickes Roger L. Edson Gwendolyn A. Hall David L. Heim David J. Heitkamp Dennis Herrick Laverne S. Knoup Elizabeth K. Kurth **Duane Lighty** Gerald L. Lowry James E. Melzer Keith L. Miller Philip W. Mitchell Maria Del Carmen Ochoa Burgueno George W. Palmer Robert A. Philipps Ellen K. Pospichal Michele K. Smith Larry W. Suckow Susan K. Swanson Daniel C. Washburn

MARCH

Xavier Barichard Christopher Boyd Arturo Diaz Aguilar Brian T. Driscoll Clair R. Franzen James M. Herlocker Susan M. Hilby

James K. Houser Robert E. Jarvis Michael D. Jones Kevin T. Kimura Glenda S. Lethem Allyn R. Miller Richard E. Miller Robert L. Murr Rick E. Nelson Brian L. Nicholas Karen E. Roszell Randy A. Schlueter James B. Seiwald James E. Triplett

Kenneth J. Bauer

Chris Behmlander Steven M. Blair Steven G. Brookshire Gustavo A Colmenares John T. Edwards Patrick W. Embry Steven T. Geurts James E. Hallerud Denise M. Hodges Jeffrey J. Krause Donald W. Matsunaga Christopher Meehan Robert D. Sirrine Michael G. Thibault

CELEBRATING 40 YEARS

Pat Boland Cedar Rapids, Iowa

Start date:

March 1975

Original position: Administrative **Current position:** Sr. Export Specialist

What piece of advice do you have for new employees? Maintain a positive attitude, work hard, listen and learn.

25 YEARS FEBRUARY

Pamela M. Buck Patrice Cau Frank A. Ditri Scott M. Erickson David B. Hume Jacques Hygonenq Clayton A. Jensen Rick J. Lamparek Robin Lee Elizabeth A. Snitker Robert D. Vanevery Mary K. White Mark A. Witte

MARCH

Sherry L. Allinger Reginald D. Bean Constance A. Benjamin Jeffrey A. Brown Monica Cassen Linda M. Coombes Timothy D. French Theodore Giraldi Jaime Humberto Gonzalez Ramirez Rebecca A. Gotz-Marshall Cheryl S. Haynes

CELEBRATING 40 YEARS

Judy A. Hull

Cedar Rapids, Iowa

Start date: March 1975

Original position: Accounting Clerk,

Government Systems

Current position: Sr. PP&C Analyst, CS

Project Cost Management

What piece of advice do you have for new employees? Don't be afraid to ask questions — lots of them. Question the status quo by asking, "Is there a better way?"

Stephane Monge John Moore Bonnie R. Mullis Susan L. Nicholas Olivier Perrier Michael Perry Rose M. Ramos Peggy L. Ritter Bruce A. Rothwell Susan W. Schnur Elizabeth M. Sentieri David Taylor **Thomas Theis** Bruce K. Tweeton Victoria L. Vick

APRIL

Mary K. Arnold Gregg L. Ballew **Anthony Diaz** Scott A. Erdman Yvonne L. Evans Brian E. Fairweather Glen J. Frett Vincent Gangula Ray N. Kaneaiakala Jerry A. Litterer Charlotte R. Mack Frances E. McCollough Ellen L. Milbach Steven G. Rindfleisch Mary K R. Robertson Raymund N. Santos Mark L. Sentieri

Philip R. Stickland

20 YEARS FEBRUARY

Christina L. Autumn Cindy L. Casel Milton Greenstreet James C. Holcombe Ah Kow Lee Soon Eng Lim Abdul Aziz Bin Mohd Sheriff Michelle M. Moran Petrus J. Sahetapy Kheng Gee Tan **Gregory Thulliez**

MARCH

James F. Aaron II Elidia Aguilar Castro Mayela Arevalo Perez Jacques Bigou Ana Luz Chavez Hernandez Chun Hau Chen Lisa A. Cole Richard Dion Rose M. Dossett Michael Dufton Consuelo Flores Arias Yvette Foote Gregory A. Holliday Armando Ibarra Mendoza Margarita Jacuinde Bermudez Norman J. Krieg Hector Eloy Lizarraga Garcia Carol A. Martin Andrew Morphou

Carrie M. O'Brien Francisco Olvera Alonso Darold L. Peters Nora Lidia Ouinones Jauregui Agustina Rodriguez Marquez Joao F. Salvego Maria Del Rocio Segura Picazo Stacy L. Tharp Brenda M. Westergren Deimerly

APRIL

Celine Gomez Daniel W. Huthwaite Randy L. Iverson Kevin J. Larson Denise M. Mahrt David H. Modro Lucy F. Rafferty Glenna Simmons Kevin K. Sizer Bryan A. Stickel

15 YEARS FEBRUARY

Amy L. Banowetz

Amir Beganovic

Stephen R. Boss Patrick Bossoutrot Angela S. Burroughs Ricky Ren Heng Chang Matthew M. Clay Andrea L. Cooper Roldan Lilia Raquel Coronado Hernandez Thomas J. Eccles Mindy K. Eilers Dolores J. Fleming Kenneth G. Forfia Cynthia L. Foster Carolyn F. Gelino Margaret L. Gerber Troy L. Gruchow William Gurtshaw Wayne Ho Carla J. Hood Michael J. Johnston Patricia C. Knutsen Doug P. Korbel Bernard H. Lettington Rory F. Lopata Donald H. McGhghy Victoria Nicholls

Martha Perez Martinez Jason E. Reid Jean Pierre Rivet Michael J. Rodman Debrah Rogers Adam S. Russell John W. Sackfield Susan M. Schultz Frank J. Sgroi Kyle P. Sievers Jolanta M. Snowel Tracey L. Strong Trenton T. Trpkosh Jennifer S. Waterman Christopher M. Wright Robert J. Wuestner Maria Guadalupe Yanez Walting Angel Alberto Zamudio Garcia

Paul A. Pearse

марсн

Jean-Charles Amaro John B. Bailey Victor H. Boyland Celine Caouret Gunnar M. Cederholm Robert V. Chapman Jr. Dong Chen Brenda J. Cross Ralph Dines Jr. Rebecca C. Duffy Mohammad F. Faizi

Paul French Michael A. Garcia Dave S. Girling Dawn L. Hall Karen K. Hempstead Adrian A. Hill William A. Holden Mary L. Holub Andrew R B Hubbard Sandra T. Jacko Nicole L. Kemp David J. Kiskamp Kari K. Long William D. MacKenzie Rebecca A. Mentzer Kathy J. Michel Matthew P. Mindolovich Karen Mishler Edwin M. Montgomery Ruth E. Nester Hien N. Nguyen Ronald E. Oliver Jim A. Olson Joseph A. Parnella Simon B. Parry Harshna Patel Harold T. Peeling Lisa J. Retzlaff Marc R. Robert Rachael L. Roe Carol Rose Judy L. Sanders Rebecca K. Sherod

Luis Fernandes

Thomas G. Sickels Denise K. Silvey Eric L. Straw Charles P. Stroo Chai Long Tay Austin R. Towell Tina R. Vera Diane Verney Matthew V. Wietlispach Dawn L. Wilber Jim A. Wittnebel Jr. Tzu Liang Yen

APRIL

James M. Arnold Romain Bakir Michael T. Bartin Eric R. Belanger Aziz X. Berraho Mark V. Bisignano Mark Boettinger **Ernest Scott Bolt** Mickael Bressel Donna L. Chadwick Stephane Chaigne Carine Clerbout Craig R. Edgerly Francis L. Feldpausch Deanna L. Freeman Julianna M. Freeman Linda K. Galyean Andrew M. Hansen Christopher Hazeel Conley Holder Thomas E. Holland Michael L. Kowalczyk Judith E. Kuboushek Christophe Le Blanc Raquel D. Lehman Todd W. Lehman Victoria A. Meggers Timothy J. O'Toole Herve Pecassou Yong Hen Poo Rebecca K. Ries David A. Ritchie Nicholas J. Scarnato Gerald L. Sheehy Andrew J. Strife Diane K. Sullivan Viola G. Thomas Titus N. Thompson Christopher A. Turkovich A. J. Vasquez Anthony J. Venuto James W. Watson

CELEBRATING 35 YEARS

Barb Hazelton Cedar Rapids, Iowa

Start date:

February 1980

Original position: Secretary, Information Technology

Current position: Sr. Engineering Project Assistant, Facilities Coordinator in GS Operations

What was your most challenging project? Helping with the conversion of all the various phone systems when we implemented VOIP.

Steven T. Williams Alan Williard Derald D. Winger Jr. Ming Chi Yue

10 YEARS FEBRUARY

Christopher B. Anderson Suresh Annachi Cinthia Claudia Baez Hernandez Jennifer J. Baide Chadwick E. Balvanz Mark C. Becker Aric A. Becker John P. Bishop Eric A. Bowen Lucile Canourgues Amanda R. Carson Kathleen A. Cecena Andrew K. Cho Michelle N. Clark Steven R. Cummings Christine L. Curfman David C. Deardorff Scott M. Delagardelle Julie Demuth Jayne Michael J. Dion Ngoc Nga T. Do Jed W. Erdahl Christopher R. Fisher Lyndsey A. Fleming Daniel Gray Kurtis R. Grimm Mizrraim Gutierrez Avila Alick Ha Randy J. Haas Gavin P. Haentjens Paul H. Harder II Larry G. Harwood Richard E. Hatton Kristina L. Helbert Erin M. Henderson Sandra R. Henderson Daniel Martin Hernandez Castillo Ryan J. Hesseltine Sharon L. Hill Brian E. Hoepner Christophe Imbert Erik D. Johnson Jason M. Juran Heather M. Keeler James E. Klein Timothy D. Klement Jon L. Kounkel

Timothy J. Kroeze Thomas W. Lemmen Brian L. Malamphy Christopher J. Manton lean M. Martensen Shavell M. Martin Ellen R. Mayfield Tracy M. McNamara Corey S. Mosley Melissa A. Murray Israel Navarro Orozco Margo D. Noel Mark S. Norton Aaron J. Nost Veronica Ochoa Sanchez Laura M. O'Connell Thomas J. Ohrt Michelle D. Owens Joshua M. Perkins Steven J. Phillips David L. Pinkston Charles A. Power Brian J. Powers Rodrigo Prieto Sandoval Karen I Puckett Carmen Lorena Ramirez Valenzuela Araceli Renteria Estrada Melanie L. Richert Gregory J. Riddick Mark E. Rinehart Roy Rodriguez William J. Schaeffer Justine C. Scheib Patricia A. Sexton Brandon J. Shanahan Clifford E. Shaw Cristina O. Simon Kelly J. Sinnock Amy L. Smith Deborah S. Smith Anthony L. SteidlerDennison Gary L. Stout Constance L. Thurston Bien Tonthat Tim A Touro Carmen J. Turner Matthew C. VanDewater Randy Vanhxay Denise A. Vollmer

Ann M. Weldon

MARCH

Edward P. Anctil Pamela M. Anderson Frank Antonelli Lonnie D. Arnold Ernest W. Ashenfelter Kenneth J. Barker Gary L. Berneking Andrew D. Bitterman Todd R. Boyle

Casey M. Kohl Alice L. Lee Joseph J. Maraszek Bela Mariassy Angel Gabriel Martinez Ortiz Christine A. Mayer Jeri A. Messer Thomas J. Messer Sean P. Miller

CELEBRATING 35 YEARS

Jody Lincoln Keleher Cedar Rapids, Iowa

Start date: February 1980

Original position: Clerk/Typist, Service Parts Department, Collins **Telecommunications Products** Division

Current position: Pr. Primary Contract Manager, GS Airborne Solutions

What piece of advice do you have for new employees? Don't let your job be the most important thing. Enjoy your life outside of work to the fullest extent possible.

Victor M. Colon Michael L. Cooper Charles A. Cotton Troy A. Docken Vickie S. Dvorak Steven A. Fisher Heather M. Gibson Jason D. Glynn Rachel E. Grimm Terell A. Guest Robert M. Hall Paul A. Heaver Timothy K. Hidinger Danny V. Hoang Sean M. Hoke Paul D. Hopkins Albert P. Hubl Kenneth N. Husband Pramod Khadgi Cecilia Kingrey

Rebecca A. Moos Evan D. Moyle Hau T. Nguyen Jun Ogawa Brian D. ONeel Michael E. Peyton Anne Plotz Robert G. Rogers Philippe Rouquette Nivedita Roy Ghatak Jesus Saavedra Anne M. Sams Brandi L. Schminkey Walter T. Seubert Heather M. Sims Cathleen J. Sondag Timothy P. Sullivan Cynthia R. Thomas Russ D. Uthe Juan E. Valles-Zamora Diane L. Vega Iliana D. Velazquez Joseph A. Walden Steven D. Wilcox Harvey S. Wong Chenggang Xie Zhaorong Ye Christine L. Young Sergio Zaragoza

Daniel B. Appleby

Richard J. Barlow

Dan S. Boardman

Evelyn M. Bruce

Laurie A. Carlton

Traci H. Baker

Lissa S Bern

Hong Cai

James H. Clapp Shawna R. Crile Kenneth Cruz John F. Cushman Sebastien D'Agostino Bruce E. Dalton Eric Delzongle Julia M. Devlin Steven J. Dirks Heidi J. Eastman Henry O. Eniola Jeffrey E. Fetta Tiberiu Fodor Phillip J. Forslund Mickael Fradin Adam Frey Robert Gallino Sandhanam Ganapathy Tammy L. Gasper Bryant S. Grant Randy W. Green Anna M. Halls Donald E. Herndon Kirk A. Jonasson Tony M. Jones Michael R. Kapsch Matthew A. Kearns Jungseung Kim Paul M. Klesner John J. Kuennen Nicholas T. Lebo Alan E. Lofdahl Chris N. Ludwig Katherine M. McAfee Dawn E. McGuire Willis L. McPhee Holly K. Merrifield Donald D. Mesch

Daniel I. Moore Craig S. Morris Suneeta G. Mullin Tim S. Nelson Janet M. Olesen Derek R. Owen Brian D. Patterson Ryan J. Paulus Jody L. Perry My K. Phu James N. Potts Kristin A. Prouty Amber D. Reed II B. Reed Fred L. Rossow Tara E. Schoepske Nichole A. Sellner Justin J. Smith Cory J. Stanton Steven F. Storm Lloyd H. Swanson Jerome Tachoires Joseph S. Torre Frederic Trincal Janet L. Van Winkle Laurent Vidal William S. Werner Kerry J. Whitetree Benjamin D. Williams Steven J. Wilson Jun Yang Crystal A. Yannarella DeAnn R. Zobro

5 YEARS **FEBRUARY**

Varun Agarwal Joshua Baer Kevan N. Bakewell Mandar S. Banavadikar Andrew D. Bigler Michael K. Burdine Philippe Carmona Timothy J. Carson Sia Cha Rudolph Y. Chan Jennifer L. Chao Fabien Charlier Sachin Chopra David D. Cox Gregory A. Crawford Vishal Diwakar Dalal Melissa B. Ditch Chad E. Dorsey David L. Eastburn Leslie A. Fessler Dale A. Hartman

Jennifer M. Jayne Daniel K. Kaiser Kevin P. Knox Kin Hoong Kwan Priscilla Lara Dennis L. Larsen Brendan J. Leahy Timothy J. Leyes Sr. Ronghui Liang Melissa A. MacDonald Devani Hardik Mathuradas Natalie C. McLaughlin John A. Mercil Ricky Prakash Mohanty Douglass D. Nguyen Ryan G. Noonan Kathleen O'Friel Douglas A. Ogreen Edmund D. Page Lisa S. Parry Nicolas J. Plamann Charles B. Plyler Jr. Joel F. Ratter Yasmin A. Rocco Elodie Rodriguez Sahil Samnotra Christopher L. Schaffer Linda M. Sojka-Parman Viraj N. Solanki Ratan Tirkey Carmen K. Tseng Sandeep Verma Anders P. Walker Isaac B. Weddington Andrew N. Wendling Adam D. Whalen

MARCH

Martin Acosta Thelma Judith Alba Meza Evan D. Allrich Sergio Alvarez Jar Hwee Ang Nasser Arslane Pattani Rishit Arvindbhai Kimberly A. Ash Benjamin Atger

CELEBRATING 35 YEARS

James B. West Cedar Rapids, Iowa

Start date: March 1980

Original position: Summer Intern, Collins Telecommunications **Products Division**

Current position: Pr. Electrical Engineer, Advanced Technology Center, Advanced Radio Systems Department

What is your favorite aspect of your current position? The people: collaborating with talented and creative colleagues, and mentoring the next generation of engineers.

Stephen N. Balong Ryan J. Barnett Christopher M. Boggs Delwyn G. Borntrager Stormchylde S. Borsetti James A. Brace Justin A. Bressler Mark R. Brinthaupt Glen T. Buckner Randy L. Bunge Heidi E. Capron Kara Clark Michael V. Cone Melissa D. Dahm Marco A. De Leon Jennifer K. Dearborn Brenda C. Diaz Anantha Krishna Donekal Sameer Sudhakar Matthew W. Draeger Scott E. Duffy Tammy Eastman Garrett R. Elworth Matthew S. Erickson Timothy Fellows

Kevin C. Foster Christopher D. Garcia Ernest Gardner Chandra S. Garrepally Miguel A. Guerra Vijaya Sekhar Gunupudi Alecia R. Harrison James A. Harvey Ryan B. Hemphill Mathew A. Hennings Joseph J. Hermanowicz Senia H. Hernandez Wendy S. Hoffman Pamela S. Husmann Denise A. Hynes Christopher I. Jaramillo Kim S. Jepsen Cary E. Jones Michael E. Keefer Oliver S. King Jonathan M. Kolbrak Sudha Ramani Kora lewen Lee Terry A. Long Angelica A. Lopez

Danny E. Major Bruce C. Maynard Michael D. McClurg John H. McKean James A. Millea Nicolas P. Mortelliti Anh N. Nguyen Jill N. Orris Pranav Pandey Mark Parme Jr. Shilpa R. Patel Chinh T. Phan Debora C. Polk Barbara A. Potter David J. Ray Kari A. Ray Divya A. Reddy Ravindra Reddy Ronald R. Rude Sunil Kumar Sahu Alejandro Salazar Larios Avanindra Singh Hariom Singh Katie R. Sokerka Justin J. Spratt Raymond Staley Debra L. Stark John R. Steffen Kristen E. Steffen Tiffany M. Straughan Kerry C. Talyat Jerome Toulouse Jack D. Treloar Heidi M. Trotter Justen T. Tucker Piper J. Twachtmann Kyle VanDusen Frank J. Vodhanel Jr. Kevin A. Wanasek Frederic Wandelst Eric I. Wendling Mark H. Williams William A. Zakaluk ΔPRII

Simpson Ananda Raj

Matthew A. Maduro

Trivedi Ravi

Maheshbhai

Venugopal Angagal Ganesh K. Armugam Paul Attaway Stephen R. Ausman Vincent Barreau Richard J. Beckman Angela R. Beer Guillaume Berni Jessica R. Boyer Francois Brignol David R. Bruno **Dorothy Calvert** Javier Chapa Lopez Jane Cook Dallas R. Coombes Julie A Cox Jared M. Cunningham Steven W. Davis Daniel A. Dennett Ellen P. Dennis Carmelo F. Di Fede Irene Enabulele-Bogle Shawn C. Freese Jennifer C. Glover Rolando Gonzalez Matthew R. Hamje Brian Harrison John L. Haunfelder Tarsha R. Holly Amanda K. Holtey Timothy M. Hubert Rosa Isela C Humildad Arturo Ibanez Gregory V. Inkelaar Vincent J. Ippolito Susan D. Johnson Traci L. Johnson Rebecca L. Jones Aaron D. Kolega Vijay Kumar S. Kotnoor Pavan Kumar Paul D. Livermore Maria Luz Lopez Maria Guadalupe

Lopez Osuna Maria

Brett T. Mangold Christy L. McDonough Andrew J. Morrical Debra Murdock Hinda Myny Shingo Nakamura Ramon Jorge Navar Larios Bhumika D. Nayak Rvan J. Olson Mark D. Olson **Anand Pandey** Chetan A. Patel Kristine K. Peyton Jesus Rolando Ouintero Herrera Andrea M. Rahe Jack Ramirez Ana Paola Ramirez Murillo Niranjan Reddy Darlene R. Reynolds David M. Rhodes Ma De Lourdes I. Rios **Brittany Robinson** Celsa Silvia Rosales Ponce Courtney L. Rowe Rita B. Sackett Peggy J. Schuricht Kelly C. Scott Vanita Sharma Charles D. Smale Matthew J. Smith Gaurav Srivastava Mark A. Steel Somanchi Venkata Surya Subrahmanyam Angela K. Taylor Kenneth W. Triplett Gabriela Valdez Maciel Missael Efrain Vega Todd B. Vitek Carolina M. Walters Rachael N. White Sherri Wildoner Daniel E. Wilson Joel Wotell Wataru Yaguchi Yeng Yun Zee

Retirees

Rockwell Collins offers congratulations and best wishes to the following employees, who have recently announced their retirements.

| Barry M. Abzug Falls Church, Virginia | Thomas J. Cleveland Cedar Rapids, Iowa | Haysville, Kansas Richard W. Finley Iowa City, Iowa | Barbara A. Holden Cedar Rapids, Iowa | Palm Bay, Florida Brian P. McKeehan Valley Springs, | Manchester, Iowa James M. Pienkos Central City, Iowa |
|--|---|--|---|---|--|
| Naresh K. Agarwal | | | | California | |
| San Jose, California | George T. Cleveland Panora, Iowa | Joseph R. Fischer Cedar Rapids, Iowa | Kathleen E. Hull Springville, Iowa | Christophe B. Miller Richardson, Texas | Brenda H. Prediger Cedar Rapids, Iowa |
| Michelle I. Anderton | Diana L. Cline | Floyd D. Fischer | Ted D. Jillson | , | Denise L. Railsback |
| Riverside, Iowa Birendra Bahadur | Iowa City, Iowa | Marion, Iowa | Wichita, Kansas | Thomas G. Mills Cedar Rapids, Iowa | Shellsburg, Iowa |
| Cedar Rapids, Iowa | Brian R. Connell | Linda Flannery | Gail A. Kester Clark | | William H. Ransom |
| John N. Barnett | Marion, Iowa | Palm Bay, Florida | Marion, Iowa | Stephen R. Mitchell Cedar Rapids, Iowa | McKinney, Texas |
| Moreno Valley, | Michael J. Cooper | Jeffrey A. Frazier | Stephen M. Kleckner | | Shelly R. Reynolds |
| California | Oregon City, Oregon | Corona, California | Cedar Rapids, Iowa | Delilah A. Moffit Marion, lowa | Marion, Iowa |
| Alan R. Bechtold | Kendall R. Cornell | Sheila K. French | Jeffrey P. Kline | | Douglas R. Richards |
| Marion, Iowa | Dubuque, Iowa | Marion, Iowa | Cedar Rapids, Iowa | Thomas L. Moran Cedar Rapids, Iowa | Marion, Iowa |
| Melvin R. Bender | Kimberly A. | Susan B. Gates | Irving J. Lagneaux | | Patricia L. Richardson |
| Kalona, Iowa | Cronbaugh Belle Plaine, Iowa | Plano, Texas | Cedar Rapids, Iowa | Carolyn A. Mullinix Oak Hill, Florida | Melbourne, Florida |
| Carl J. Berstler | | Tamam Gharib | Don L. Landt | | Robert H. |
| Marion, Iowa | Michael W. Davies Anamosa, Iowa | Robins, Iowa | Palo, Iowa | Mary A. Murphy Cedar Rapids, Iowa | Richardson II Ellicott City, |
| Ronald L. Bird | | Geirun B. Giza | Rodney N. Larson | | Maryland |
| Cedar Rapids, Iowa | Larry D. Davisson Palo, Iowa | Marion, Iowa | Marion, Iowa | Richard T. Napolitano Annapolis, Maryland | Donald L. Roberts |
| Larry W. Black | | Dwayne D. Grote | Judith A. Leavitt | | Wichita, Kansas |
| Cedar Rapids, Iowa | Gary J. Deimer | Cedar Rapids, Iowa | Coralville, Iowa | Sara J. Onsager | Fernando Rodriguez |
| | Marion, Iowa | | | Decorah, Iowa | Murphys, California |
| Gary W. Boesdorfer | Robert D. Denison | Earl R. Haft | Pamela K. Letsch | Roger S. Parks, | marphys, camonia |
| Murphy, Texas | Cedar Rapids, Iowa | Miami Springs, Florida | Clinton, Iowa | Marion, lowa | Richard F. Rystrom Cedar Rapids, Iowa |
| Larry D. Bricker | Maria G. Diaz | David H. Haley | Paul D. Little | Gilbert C. Parmelee | ccaa. napias, iona |
| Marion, Iowa | Gilroy, California | Marion, lowa | Marion, Iowa | Las Vegas, Nevada | Douglas E. Salisbury Hiawatha, Iowa |
| Gregory E. Brown | Debora J. Drexler | Dorothy A. | Norma Lopez | Irvin J. Pasker | , |
| Palo, Iowa | Coggon, Iowa | Harrington Rockledge, Florida | Huntington Beach, California | Cedar Rapids, Iowa | Kathy M. Sedore Marion, Iowa |
| Sally A. Bruce Vinton, Iowa | Raejean Fairbanks | O · | Maynard G. Luth | David C. Pattison | |
| | Cedar Rapids, Iowa | Kenneth M. Hartman Carlsbad, California | Fairfax, Iowa | Cedar Rapids, Iowa | Mary L. Shaffer Marion, Iowa |
| Tracy Bruseth Cedar Rapids, Iowa | Linda M. Farrell | | Dona C. MacMillan | Donna R. Patton | |
| Dennis E. Burkhardt | Melbourne, Florida | Robert T. Heitsch Palm Bay, Florida | lowa City, Iowa | Coggon, Iowa | Mark S. Shanks Tigard, Oregon |
| Ely, Iowa | James D. Fennern Sr. | • | Allen P. Mass | Duane E. Peters | |
| David E. Cantrell | Cedar Rapids, Iowa | John S. Hobbs West Des Moines, | Lisbon, Iowa | Cedar Rapids, Iowa | Bruce E. Shockley Charleston, South |
| Sherwood, Oregon | Valerie F. Ferguson | lowa | Rogelio R. Matos | Steven H. Petersen | Carolina |
| J. Ich Wood, Oregon | Pasadena, Maryland | K. In H. C. | Indialantic, Florida | Cedar Rapids, Iowa | Alma A.C.I. |
| Mary K. Clark Tipton, lowa | Donald G. Fifer Jr. | Karl R. Hoffman Marion, Iowa | Pamela S. McComas | Dwight D. Phillips | Alma A. Schramek Swisher, Iowa |
| * | | | | | |

| Nicholas Skordilis San Jose, California | Susan E. Spitz Cedar Rapids, Iowa | Ronald J. Stastny Ely, Iowa | Bruce E. Taylor Crossville, Tennessee | Lynda L. Williams Marion, Iowa | Larry L. Young Cedar Rapids, Iowa |
|--|--------------------------------------|--|--|---|---------------------------------------|
| Renee Smith Robins, Iowa | Patti J. Stacy Brandon, Iowa | Douglas A. Stealey Cedar Rapids, Iowa | Thomas D. Wahlstrom Vancouver, Washington | Chris C. Williams Hiawatha, Iowa | Christy S. Young Palm Bay, Florida |
| Richard G. Smith Everett, Washington | Ronald T. Stanton Tualatin, Oregon | James F. Steggall Cedar Rapids, Iowa | | Shirley E. Wilson Center Point, Iowa | Ning Zhu San Jose, California |
| , 0 | , 0 | , | Debbi L. Washburn Marion, Iowa | , | , |
| Raleigh J. Spinks Jr. | Shirley J. Starr | Carole J. Stephen | marion, rowa | Edmond M. Wilson | Gail M. Zweibohmer |
| Marion, Iowa | Cedar Rapids, Iowa | Marion, Iowa | Robert L. Whitfield Manteca, California | Center Point, Iowa | Postville, Iowa |
| | | Robert E. Stockwell Hillsboro, Oregon | | | |

In memoriam

Rockwell Collins offers condolences to the families and friends of the following employees and retirees, whose deaths were recently reported.

| Richard D. Allen III* Morristown, Tennessee Feb, 1, 2015 | Ricky L. Fulbright Griffin, Georgia March 5, 2015 | Linda Johnston* Feb. 14, 2015 Glenn W. Kirchman* | Darrell W. Netolicky* Cedar Rapids, Iowa Dec. 5, 2015 | Paul D. Purdy* Dunkirk, Ohio Dec. 14, 2014 | Karl K. Strempke* Melbourne, Florida Feb. 10, 2015 |
|---|--|--|--|--|---|
| Kenneth G. Althouse* Arcadia, Florida Jan. 16, 2015 | John J. Furlan* San Jose, California Dec. 21, 2014 | Melbourne, Florida Feb. 10, 2015 Clifford D. Koop* | Kim R. Newmister* Cedar Rapids, Iowa Feb. 2, 2015 | Sylvio I. Raymond Jr.* Houlton, Maine Jan. 2, 2015 | Antonette T. Stuessel* Marion, Iowa March 29, 2015 |
| Kenneth J. Baker Cedar Rapids, Iowa Dec. 21, 2014 | Billy D. Goodgame* Slidell, Louisiana Jan. 29, 2015 | Cedar Rapids, Iowa Feb. 7, 2015 Frank A. Kowalewicz* | Cam V. Nguyen* Fontana, California Jan. 19, 2015 | Sandra S. Reid* Olin, Iowa Jan. 24, 2015 | Ann Thompson* Jan. 12, 2015 |
| Clyde T. Beatty* Springfield, Ohio Jan. 2, 2015 | Walter A. Hammerle* Florence, Kentucky Feb. 21, 2015 | Rochester Hills, Michigan Jan. 3, 2015 | Thomas A. Niemi* DeWitt, Iowa Dec. 29, 2014 | James J. Ritchey* Newark, Ohio Jan. 5, 2015 | Aiphuong T. Tran Dallas, Texas March 12, 2015 |
| Tommie Boleyn* Marion, Iowa Jan. 12, 2015 | Charles H. Harff* Sewickley, Pennsylvania March 9, 2015 | Carson W. Krebs* Fountain Valley, California Feb. 22, 2015 | Dale Odell* Anahola, Hawaii Jan. 4, 2015 | Edelmiro Rodriguez* Reno, Nevada March 7, 2015 | Dennis J. Vanderhei* Cedar RFapids, Iowa Dec. 24, 2014 |
| Roger D. Burns* Sun Lakes, Arizona Jan. 5, 2015 | Patrick G. Henry* Madison Heights, Michigan | Bryson C. Lewis* Monroe, North Carolina Dec. 23, 2014 | Michael D. Patrick* Springfield, Ohio Dec. 15, 2014 | Helen Romanski* Stony Brook, New York March 8, 3015 | Kim Walters Shadyside, Maryland March 18, 2015 |
| Richard O. Clark* Cedar Rapids, Iowa Feb. 19, 2015 | Dec. 1, 2014 Dennis P. Hilzendager* Central City, Iowa | Edward F. Martin* Zellwood, Florida Dec. 31, 2014 | Michael Pennington* Amelia Island, Florida Dec. 5, 2014 | Beverly Saunders* Annapolis, Maryland Jan. 9, 2015 | Marda D. Walters* Marion, Iowa Jan. 6, 2015 |
| Richard Coss* Annapolis, Maryland March 8, 2015 | Feb. 1, 2015 Regina H. Honzik* Hodgkins, Illinois | Dianne M. McGhee* Melbourne, Florida Feb. 28, 2015 | Lillian L. Peters* Cedar Rapids, Iowa March 16, 2015 | James R. Siechert* Cedar Rapids, Iowa Jan. 5, 2015 | Frances A. Watson* Phenix City, Alabama Dec. 18, 2014 Lloyd Worthley* |
| Sandra J. Fick* Hiawatha, Iowa Feb. 8, 2015 | Jan. 20, 2015 Joseph Hucko* San Diego, California | Richard D. Moore* Selma, Iowa Jan. 13, 2015 | Rockledge, Florida March 10, 2015 | Jason W. Smith Cedar Rapids, Iowa Feb. 17, 2015 | Fremont, California Jan. 2, 2015 Dawn M. Wright |
| Robert M. Frame* Lincoln, Nebraska Feb. 22, 2015 | Jan. 4, 2015 Lonnie D. Hughes Indialantic, Florida Dec. 3, 2014 | Carl S. Nelson* Lutz, Florida Feb. 11, 2015 | George W. Pritts Jr.* Alexandria, Virginia Dec. 13, 2014 | Bruce H. Stetler Mulvane, Kansas March 10, 2015 | Center Point, Iowa Feb. 10, 2015 |

*Retirees

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