

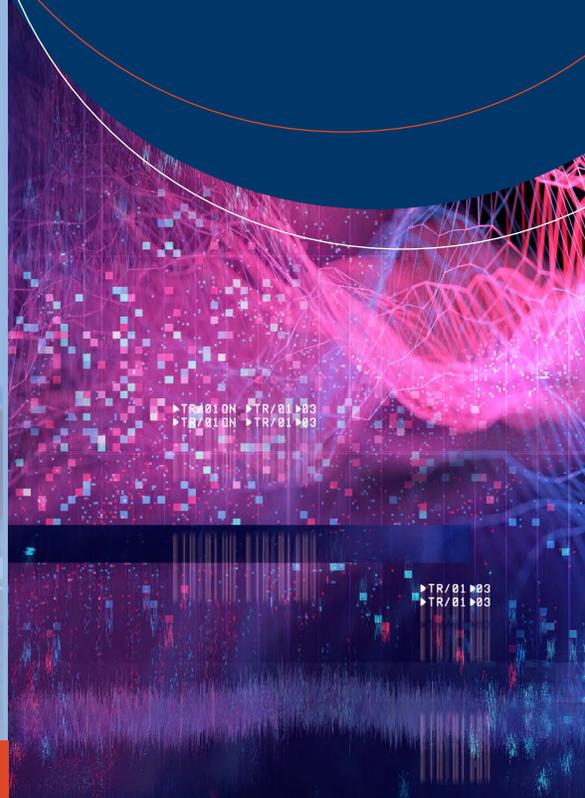
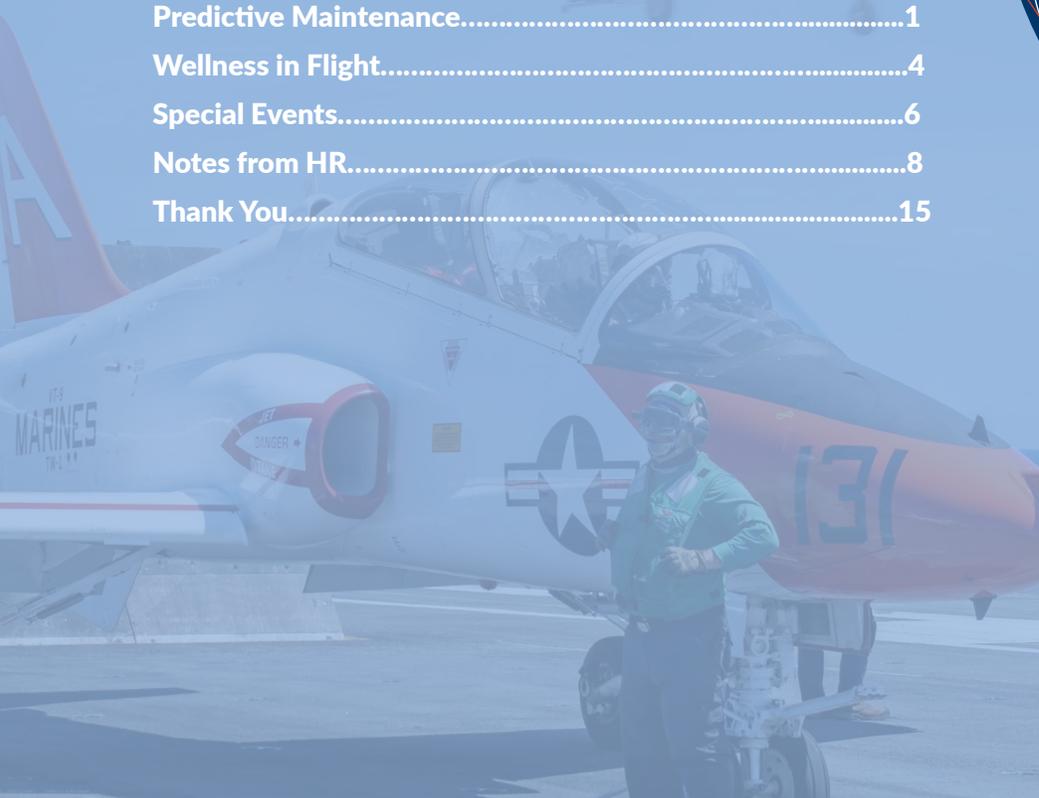
# GALAXY GAZETTE



Here's your place to find out what's happening all across the ASI team, from new innovations to important events and announcements.

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# BEYOND CAPABLE MAINTENANCE INTERDICTION

*By Barry Smith*

Beyond Capable Maintenance Interdiction (BCMI) is the co-location of Level III Artisans and Sailors/Marines at Level II Fleet Readiness Centers (FRCs)/Marine Aviation Logistics Squadrons (MALS) for on-site repair of aeronautical components. The objective of BCMI is to reduce the costs of Aviation Depot Level Repairables (AVDLR) and provide enhanced Level II capabilities to increase flight line readiness. Since its inception in 2007, BCMI has saved over \$1 billion and has expanded to provide repair capabilities to 10 different Navy and Marine Corps Type Mode Series aircraft.

In FY22, Commander Fleet Readiness Centers (COMFRC) started a project to expand BCMI capabilities and locations focusing on components from H-60s, V-22 and high-dollar F-18E/F/G components. Teaming with Andromeda Systems Inc (ASI), COMFRC spent most of FY22 working with PMA-299, PMA-275, and PMA-265, while also visiting 13 FRCs/MALS working with onsite artisans and Sailors/Marines to identify components that would benefit from BCMI.

Additionally, the teams would help identify and resolve over two dozen material and support equipment deficiencies to better enhance BCMI repairs. From these visits, several additional projects would be initiated with the goal of increasing BCMI savings by over \$10M per year starting in FY23.

**H-60 Project:** The primary goal of the project was to bring the H-60 T/M/S into the BCMI program at a larger scale, provide repair capabilities for top cost drivers, introduce new repair technology to enhance capabilities, and save \$5M in FY23 and following years. As of Q3 FY22, the project is on track and has made significant progress in gaining approval for new technologies (Static Balancing and Flap Peening for blade repairs), hired 5 new artisans (to include one artisan to be stationed at NAF Atsugi), and is also on track to achieve the initial \$5M in AVDLR costs in FY23.



**V-22 Project:** Similar to the project with H-60s, PMA-275 wanted to expand and enhance V-22 BCMI, and to eventually include CMV-22. The primary target for V-22 would be the very limited repair capabilities for blades and several other composite airframe structures. Teaming with the V-22 FST, four repairs are being developed for the V-22 blade with the expectation of having procedures to the BCMI Artisans by early FY24 that is projected to save up to \$5M per year.

**F-18 Horizontal Stabilators:** Working with FRCSW, PMA-265, and the F-18FST, the BCMI Team is helping establish repair and replacement capability of the copper beryllium bushing for the F-18 Horizontal Stabilator, which will allow for expanded repairs at both the Level III and Level II repairs sites and reduce charges to the flying hour program.

Along with several other projects, the BCMI Team is also working with Level II sites.

*FY23 is looking to be one of the best years for BCMI, which is currently on pace to save over \$275M after labor and materials costs.*

# CTMA CONNECTOR FEATURE: ASI COLLABORATES WITH AIR FORCE ON MAINTENANCE COST REDUCTION

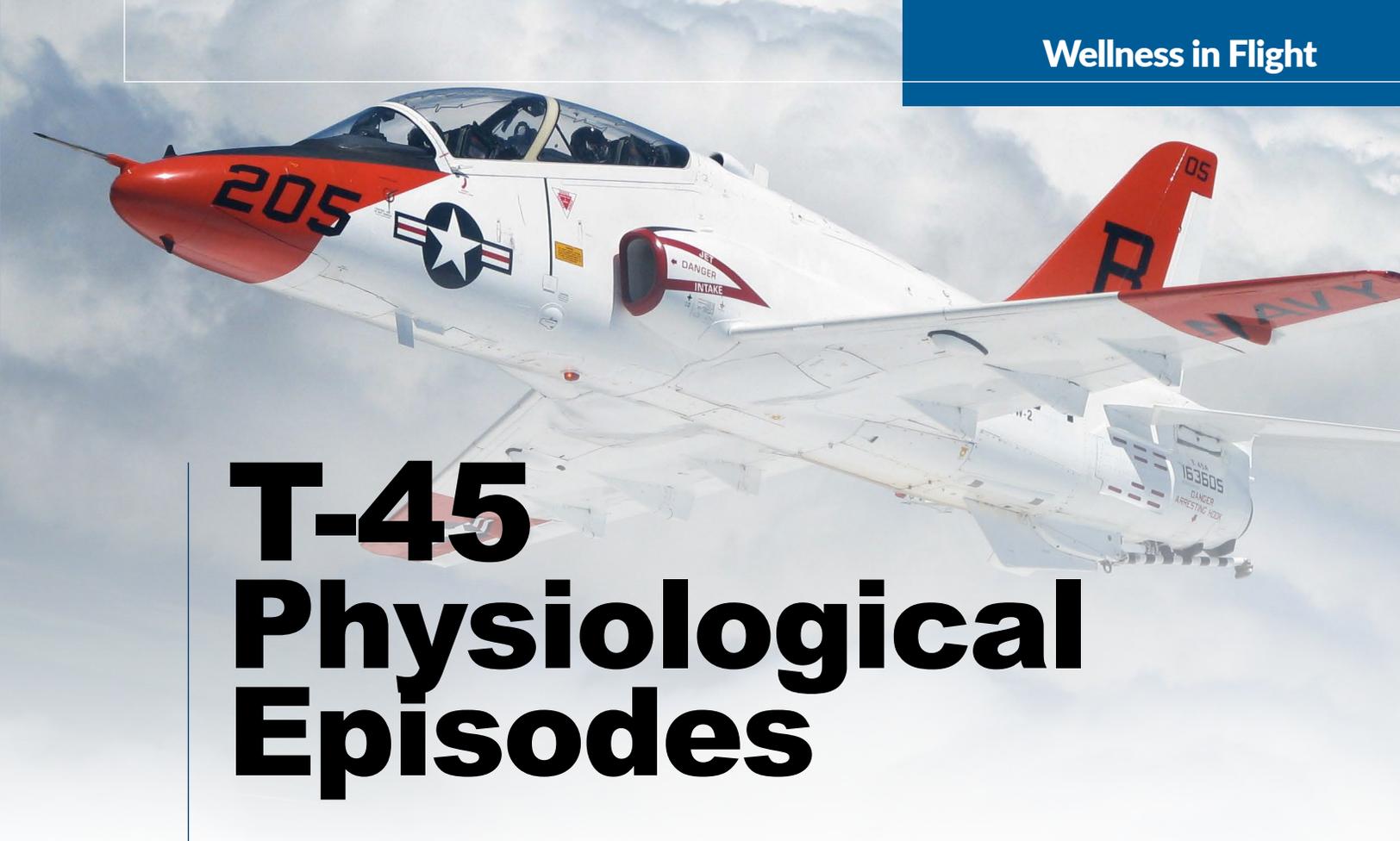
ASI partnered with the USAF HH-60W Support Program Office (SPO) to perform a complete assessment of their current organic repair capabilities and evaluate necessary future requirements. This effort is through a Commercial Technologies for Maintenance Activities (CTMA) Cooperative Agreement led by Greg Hutson, Director of Strategy for ASI's INPD Division.

Requiring smooth coordination across multiple divisions within ASI, the team performed a gap analysis and Business Case Analysis (BCA) to identify and/or "make the case" for which critical components should be repaired organically and which should be contracted out to the Original Equipment Manufacturers (OEMs). The HH-60W is a newly fielded Combat Rescue Helicopter (CRH) - performing this type of Gap Analysis early in the program is critical to minimizing life-cycle costs while sustaining readiness and availability.



The effort included performing baseline evaluations of repair activities at various DoD repair locations, as well as the identification of required resources to support the critical components. Differences i.e. gaps between existing DoD repair capabilities and capacity and resources required to support any new components were highlighted to assist the U.S. Air Force in its evaluation of establishing organic repair capabilities. ASI's extraordinary efforts were featured in the Summer 2023 issue of the CTMA Connector magazine.

*To read more about the project, visit <https://www.ncms.org/news/ctma-connector/>*



# T-45 Physiological Episodes

*By Paul Antonopoulos, Jerry Cox, Mateus Feitosa*

Over the course of more than a decade, the T-45 fleet has been plagued by a persistent challenge known as Physiological Episodes (PHYSEPs). The Naval Safety Command defines a PHYSEP as a situation, “when aircrew experience adverse physiological, psychological, pathological, or physical problems that manifest during or after flight.” These episodes can be triggered by abnormal oxygen levels or cabin air pressure fluctuations, amongst other issues, and their consequences range from mild symptoms like dizziness and confusion to severe cases involving loss of consciousness.

When it is established with reasonable certainty that these symptoms are attributed to a known or suspected system malfunction, the PHYSEP is then upgraded to a Physiological Event (PE) and requires analysis and response from the Physiological Event Response Team (PERT). There are currently two ASI team-mates embedded as permanent members of the multi-discipline PERT.

The prevalence of PHYSEPs reached its peak around 2017, prompting increased scrutiny from pilots and ultimately leading the Fleet Readiness Center Southeast’s T-45 Fleet Support Team (FST) to step in to join a multi-discipline and multi-platform action team. Tasked with identifying and correcting the underlying causes of these events, the T-45 FST implemented various changes to address these recurring issues.



These measures included systemic improvements to the aircraft such as adjustments to engine IDLE speed and bleed air ducting redesign, performance and fit-check testing systems of aircrew gear (Joint Combined Aircrew System Tester - JCAST), and improved targeted maintenance procedures. Some redesign and retrofit efforts to improve On Board Oxygen Generating System (OBOGS) performance and reliability are currently in progress, such as the incorporation of a new Automatic Backup Oxygen System (ABOS) and GGU-25 Concentrator.

It's important to note that Physiological Events on the T-45 have historically occurred due to a multitude of reasons, including aircraft performance, human factors, and component failures, and they often stem from complex relationships between the aircraft, flight gear,

and aircrew. When a potential PE occurs, the aircraft is quarantined until data analysis is completed, the probable cause has been identified, and FST-recommended troubleshooting and repair are completed. Techniques employed by the Environmental Control Systems (ECS)/OBOGS Team ensure minimal downtime is required for the aircraft to be returned to a ready-for-training status.

While the frequency of PEs has decreased since the peak years, they still occur sporadically. ASI, with its extensive experience in sustaining engineering support, has been collaborating with the T-45 ECS/OBOGS FST for many years. Our seasoned ASI Flight Data Analyst has worked closely with key individuals in ECS FST Engineering, playing a pivotal role in the initial development of an integrated Flight Analysis methodology that merges flight data, engine parameters, and key oxygen-related metrics into one environment. This previously non-existent approach now equips the ECS/OBOGS FST with essential flight analysis capabilities, enabling them to pinpoint the root causes of related events (ex: aircrew gear-leaks, sub-optimal engine, or OBOGS performance) and swiftly recommend corrective actions, ultimately enhancing readiness and safety.

ASI provides continuous support around the clock in case of a PHYSEP. Simultaneously, the engineering team has assumed an additional responsibility of enhancing the flight data analysis and processing methodology to better identify potential contributions from aircraft systems.

# 1 2023 Commercial Technologies for Maintenance Activities Partners Meeting

Check out ASI's own Rob Willis on the Keys to Technology Transition Panel briefing our Capacity Optimizer tool.



John Kummer also dazzled during the "Show Us Your Technology" workshop working the B-52 Landing Gear challenge.

# 2023 Commercial Technologies for Maintenance Activities Partners Meeting



Thank you to the National Center for Manufacturing Sciences (NCMS) Team for an excellent event!



# A New Chapter at Lake Gray Plaza

By Ruben Ochoa

*Andromeda Systems Inc. is excited to share the latest installment of the quarterly newsletter, packed full of updates as the company navigates an important transition. ASI is preparing for a move to a new facility at Lake Gray Plaza. To delve deeper into this development and what it means for the ASI family, COO, JC Leverette, and Corporate Administration Executive, Patti Lindblad, shared some valuable information.*

## **The Necessity and Strategy of Our Move**

*JC began by explaining the impetus behind the move - the current building's owner filing bankruptcy and selling the building. This unexpected turn led to a new opportunity to optimize the work environment, a step that's aligned with ASI's long-term growth strategy.*

*The move allows the company to 'right size' the facilities for current staff size and anticipated future expansion. The Lake Gray Plaza space offers the chance to consolidate personnel who are currently dispersed across two offices in Orange Park into a single, cohesive unit.*

## **A Breath of Fresh Air**

*Patti echoes the sentiment of change as a positive force. After 14 years in the current space, she feels that a new environment will invigorate the team and boost morale. She anticipates this refresh as an opportunity to rejuvenate our day-to-day operations.*

## **Creating Our New Space: Partnering for Success**

*ASI's collaborations with Dav-Lin Interior Contractors and Place Plan, LLC are vital in making the vision for the new facility a reality. JC emphasized that the selection was based on not only competitive pricing, but also Meek's (the property manager for the new building) past positive experiences with the vendors.*



### ***Crafting a Future-Ready Space***

*One of the highlights of the new facility, JC shared, is a dedicated conference and training center. It's designed with multiple meeting areas, breakout and collaboration rooms, and equipped with cutting-edge technology to cater to both on-site and hybrid work environments. It's a feature that embodies ASI's commitment to continuous improvement and staying at the forefront of the industry.*

### ***Business as Usual: Ensuring Seamless Service Delivery***

*Patti's team is working tirelessly to ensure a seamless transition. They are setting up new vendors for services at the new location and preparing to handle maintenance responsibilities. Despite the location change, Patti is committed to ensuring a minimal disruption to internal administrative functions.*

*Moreover, JC stressed that the move won't affect delivery of services to clients. He emphasized that the new facility is close enough to ensure our NAS clients and others will still have easy access to services.*

### ***Reflecting on Our Growth Journey***

*JC and Patti both see the move as a significant marker in ASI's evolution. From humble beginnings in a small one-room office to a space designed entirely by the company and for the company, ASI is embracing growth while staying true to its roots.*

### ***The Florida Connection: A Critical Component***

*JC further shed light on the role of the Florida operation in overall strategy. As the largest technical office and the home of most corporate functions, the Florida operation is a linchpin in ASI's corporate structure.*



# New Chapter at Lake Gray Plaza

## **On the Horizon: Looking Ahead**

*The new facility is expected to be operational by mid-September. Patti is committed to ensuring minimal disruption by planning ahead and staying organized.*

*As the company steps into this new chapter, Patti shared the main milestone in her mind is completing the move and restoring normalcy. But that doesn't mean there won't be celebration - she hinted at a ribbon-cutting ceremony or a celebratory lunch with the team.*

*ASI extends deepest thanks to all team members as the company navigates this significant transition. Unwavering dedication from valued employees fuels this journey, and ASI looks forward to exploring possibilities at the new space at Lake Gray Plaza together.*

*Stay tuned for more updates, and as always, thank you for being part of the ASI family.*

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## **A New Chapter at Lake Gray Plaza**

# The More You Know...



Each year in September, National Preparedness Month is observed in the United States. It serves as a reminder to prepare for any disaster, whether it be man-made such as a cyberattack, explosion, chemical/hazardous materials spill, or a natural disaster such as an earthquake, wildfire, hurricane, flood, winter storm, and more!

As we know, disasters can have a devastating effect on homes, communities, and businesses. While many of these occurrences cannot be avoided, there are steps that can be taken in order to mentally and physically prepare. The peace of mind in knowing that precautions have been taken is valuable for mental well-being in times of stress and uncertainty. Regardless of where you live and the disasters you can encounter, these tips and resources can be applied across a wide range of scenarios.

The U.S. Department of Homeland Security created Ready.gov to educate and empower people to prepare for, respond to, and mitigate emergencies including man-made and natural disasters. The site contains valuable information to help you and your family weather the storm.

- For people with [disabilities](#) and their families, it is important to consider individual circumstances and needs to effectively prepare for emergencies and disasters.
- [Pets and animals](#) are important members of your family and they rely on you 100%. The link includes some tips to help you make a plan, build an emergency kit, and stay informed on weather conditions that could affect the safety of outdoor pets and animals.
- [Older adults](#) often have factors such as medication and financial/medical benefits, such as Medicaid, Medicare, and Social Security, to take into consideration in order to live their day-to-day lives. During disasters, systems and resources can be disrupted so it's important to be prepared, both physically and financially.
- Educating kids and teens on disaster preparation is important for families. Visit [Be a Ready Kid](#) for games and resources to help keep children safe before, during, and after disasters.

Preparing for disaster ahead of time is a necessary precaution. In addition to creating emergency plans and arrangements, it's also important to be educated on safety skills that could come in handy at any given time. Visit [Ready.gov](#) to learn more about first aid and CPR, using a fire extinguisher, shutting off utilities, and more. National Preparedness Month is a great reminder to plan ahead and take care of our future selves. We care about each of you and your families and hope that this information serves you well!



# HAPPY ANNIVERSARY!

## 5 YEAR

*CJ Andrews  
Lindsey Bonnette  
Nathan Collins  
Marie Hanna  
Michael Hiebert  
Jason Holsclaw  
Michael Page  
Jim Tough  
Bob Wilkins  
Jimmy Zachary*

## 10 YEAR

*William Brockman  
Barbara Ketchum  
Harrison Lindblad  
Johnny McCray  
Patrick Mellon*



## P R O M O T I O N S

<i>Dennis Bailey</i>	<i>Logistics Analyst</i>
<i>Jill Burbank</i>	<i>Senior Logistics Analyst</i>
<i>Tom Cunningham</i>	<i>Senior Stress Engineer</i>
<i>Rafael Custodio</i>	<i>Logistician II</i>
<i>Alex Diaz</i>	<i>Logistician II</i>
<i>Paul Engel</i>	<i>Acquisition Logistics Manager, Journeyman</i>
<i>Oscar Escobar</i>	<i>Systems Engineer</i>
<i>Eric Fleming</i>	<i>Reliability Analyst</i>
<i>Larry Flynn</i>	<i>Senior Logistics Specialist</i>
<i>Russell Furgason</i>	<i>Acquisition Logistics Manager, Journeyman</i>
<i>Lisa Hampton</i>	<i>Logistician IV</i>
<i>Kristen Kane</i>	<i>Senior Logistics Analyst</i>
<i>Joanne Kennedy</i>	<i>Supply Analyst</i>
<i>Kathy Leverette</i>	<i>Senior Structures Engineer</i>
<i>Bill Lowstetter</i>	<i>DevOps Developer</i>
<i>Patrick Mellon</i>	<i>Product Manager</i>
<i>Denise Nieves</i>	<i>F/A-18 FST/CNAF Database Support</i>
<i>Lance Phillippi</i>	<i>Junior Logistician</i>
<i>Christopher Reed</i>	<i>MALS-11 Aircraft Inventory/Configuration Manager</i>
<i>Trevor Sanderson</i>	<i>Logistics Analyst</i>
<i>Alisha Saylor</i>	<i>Reliability Engineer</i>
<i>Brandon Viana</i>	<i>Acquisition Logistics Manager, Journeyman</i>
<i>Adam Welsh</i>	<i>Acquisition Logistics Manager, Journeyman</i>
<i>Jimmy Zachary</i>	<i>Senior Logistics Analyst</i>
<i>Bill Zaller</i>	<i>CSFWL AVCAL Support/FSO</i>
<i>Zachary Zalok</i>	<i>Senior Logistics Analyst</i>



## NEW HIRES

NAME	TITLE	DIVISION
Androuin, David	Software Developer Intern	IS&S
Bonniwell, Chase	Engineering Intern	Engineering
Christensen, Dennis	Senior Logistics Analyst	A&PM
Cooke, Robert	Stress Engineer	Engineering
Grice, Jon	AI Engineer	IS&S
Guity, Edson	Sr. Structures Engineer	Engineering
Holder, Chris	Subject Matter Expert	A&PM
Hutchinson, Shannon	Senior Software Developer	IS&S
King, Paul	Structures Engineer	Engineering
Longerbeam, Jimiesha	OOMA/Logset Logistician	RM&S
Lopez, Laurie	Administrative Specialist	Engineering
Lowery, Winton	Electrical Engineer	Engineering
Mackin, James	Software Development Manager	IS&S
Mauldin, Ryan	Senior Software Developer	IS&S
Nguyen, Michelle	Structures Engineer	Engineering
Nieves, Kenneth	Logistics Analyst	RM&S
Noble, Phillip	Sr. Systems Engineer	Engineering
Pettersen, Kenneth	Senior Logistics Analyst	A&PM
Philip, Erin	Engineering Intern	Engineering
Portell, Robert	Logistics Analyst	RM&S
Pruitt, Tim	Senior Electrical Engineer	Engineering
Reed, David	Senior Logistics Analyst	A&PM
Rios, Andres	Logistics Analyst	RM&S
Ryba, Christopher	Structures Engineer	Engineering
Venzke, Matthew	Subject Matter Expert	A&PM
Willoughby, Lonnie	Electrical Engineer	Engineering



# THANK YOU!

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*Communication is everything at Andromeda Systems Inc., so we are excited to continue to provide you the Galaxy Gazette on a quarterly basis. We look forward to hearing about other exciting news and events that you would like to share with us!*