BUSINESS DEVELOPMENT BOARD
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Your Economic Development Resource

February 25, 2020

THE ENGINEERS' COUNCIL
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2020 National Engineer's Week

Honors & Awards Banquet

AEROJET ROCKETDYNE

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PRATT & WHITNEY
DEPENDABLE ENGINES
GO BEYOND

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Agenda

Opening Remarks
Tim Byrd, Voxpower Voiceovers, LLC
Tonight's Emcee

Lake Worth Airforce JROTC
Presentation of the Colors
Catherine Boynton, Oxbridge Academy
National Anthem

Kelly Smallridge
President & CEO, Business Development Board

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George Prueger
Chief Engineer, Space Business Unit, Aerojet Rocketdyne

Presentation of Awards

Dinner

Keynote Speaker
Mary Anne Cannon
VP, WPB Site & Dev. Operations of Pratt & Whitney

AIAA Recognition
Joaquin Castro
Manager – Advanced Launch Programs
Aerojet Rocketdyne

Presentation of Awards
BDB AAE Task Force Co-Chairs

James Maus
Vice President - Programs-Space BU

Cris Vigil
Sr. Vice President, BRPH

Adjourn
Thank you for joining us tonight!

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Keynote Speaker

Mary Anne Cannon

Vice President West Palm Beach Site and Development Operations

Mary Anne Cannon is Pratt & Whitney's vice president West Palm Beach, Florida Site and Development Operations. Mary Anne is responsible for oversight and leadership of the West Palm Beach campus, inclusive of anticipated growth and leads the Development Operations organization across all Pratt & Whitney sites, encompassing Engine Assembly, Instrumentation & Test Operations. She is responsible for meeting Engine Assembly, Instrumentation & Test -related customer requirements in the areas of cost, quality, schedule and delivery, as well as developing organizational talent. Prior to this role Mary Anne was vice president Commercial Programs including the PW4000, PW2000, PW6000, JT9D and JT8D engines and was responsible for developing and managing the product line life-cycle strategies and ensuring customer requirements were met. Cannon has 30 years of experience at Pratt & Whitney across the Engineering, Quality, Operations and Programs organizations. She served as Pratt & Whitney's vice president of Environment, Health and Safety, where she was responsible for the continued development and administration of Pratt & Whitney's environment, health and safety programs, policies and practices worldwide as well as ensuring compliance with corporate, federal and state requirements. Prior to this role, Cannon was vice president Quality & EH&S responsible for quality assurance and product integrity and Achieving Competitive Excellence (ACE) continuous improvement activities. Prior to joining Pratt & Whitney in 1989 at the West Palm Beach location, Cannon started her career at Grumman Aerospace Corp. She earned a bachelor's degree in mechanical engineering from Stevens Institute of Technology in 1986. Mary Anne is passionate about supporting women in STEM (Science, Technology, Engineering and Math) roles. She devotes her time to mentoring young women both in college and at P&W and most recently she and her husband established a scholarship at her Alma Mater Stevens Institute of Technology to support women pursuing an engineering degree. Mary Anne serves on the Presidents' Leadership Council for Stevens Institute of Technology and The Foundation Board of Central Connecticut State University. She has served on the Industry Advisory Board for Western New England School of Engineering. Mary Anne is a lifetime member of AWAM (Association of Women in Aviation Maintenance) and a 20 year member of Women in Aviation, International. When not at work she can be found at the gym pursuing her newest hobby- powerlifting- most recently she competed in her first amateur competition and placed first in her category. Mary Anne makes her home Stuart, Florida with her husband Dan- who recently retired from P&W after a 35 year career and her son Joseph who recently graduated with an AS in Criminal Justice and is pursuing his BS in Homeland Security.

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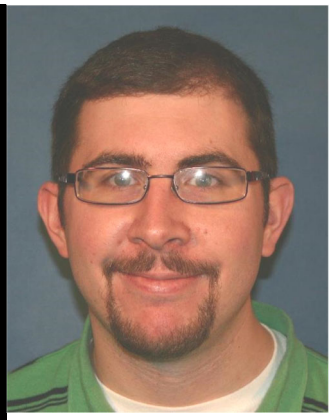
Outstanding Engineering Achievement Merit Awards



Zachary Wachter
Agilis Engineering, Inc.
Mechanical Design Engineer

Zach has been a mentor, teacher, and enthusiastic technical leader for many less experienced engineers. Zach's contributions to the profession include an ability to quickly learn a diverse set of complex customer requirements and apply them accurately to multiple component designs being executed by less experienced engineers – he has actively equipped our engineers with this knowledge and skill to build an agile generation of young engineers. He has demonstrated an acute ability to combine established engineering fundamentals with the latest customer technical requirements and accurately meet the customers' expectations.

Brad Burkett
Agilis Engineering, Inc.
Mechanical Design Engineer

Brad excels at applying fundamental engineering principles to solve new and challenging problems. He has a good understanding of the big picture which helps him to identify and implement solutions to both system and component level problems. Brad feels a strong sense of ownership in everything he does, and he is an excellent teacher and mentor. As a result of his passion for engineering and blossoming leadership skills, Brad is destined to become a leader in our industry.

John Johnsen
Belcan
Senior Technical Leader - Structures

John brings over 14 years of structural analysis experience which he uses to help the Belcan team solve complex analyses. He has used his experience and knowledge to help mentor new engineers by teaching them how to perform various structural analyses. His contributions have helped expand the knowledge base of the Belcan team and has cultivated a collaborative learning environment. His contributions also include a new application for patent this year.

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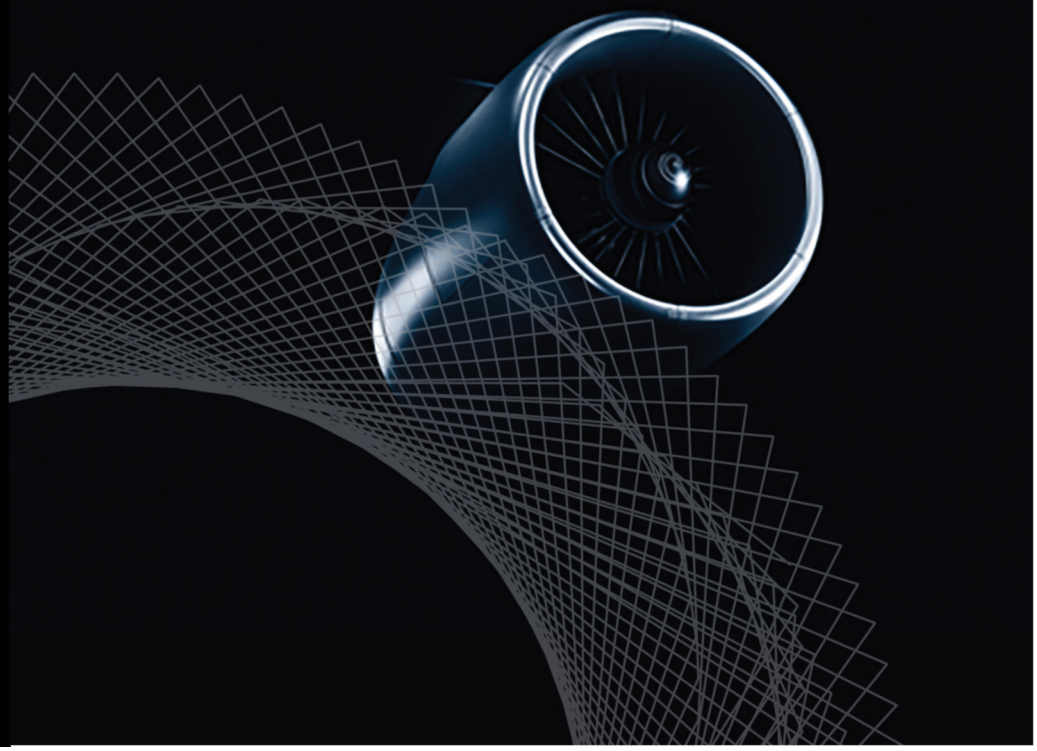

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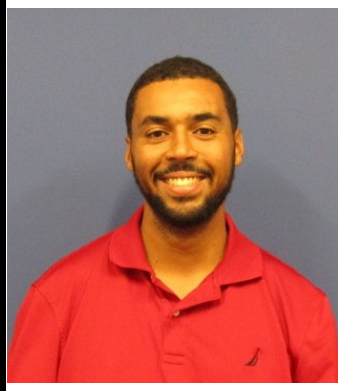
Outstanding Engineering Achievement Merit Awards

Keith Onofry
Belcan
Senior Technical Leader - Controls

Keith Onofry is a Senior Technical Lead and project manager for 20 projects within the Controls and Diagnostic Systems group. In the past year, Keith has made some outstanding contributions by instilling process improvements to increase the quality of Belcan's deliverables in addition to our customer's products. While there are numerous enhancements that Keith has done in the past year, two in particular really highlight his commitment to quality. He focuses on quality goes hand-in-hand with his desire for organic growth. Keith never misses an opportunity to build the customer's trust in our people by reminding them of our achievements. His leadership and his meticulous attention to detail has resulted in growth of our design team to nearly double.



Brent Lougheed
Belcan
Senior Engineer - Controls

Brent is responsible for leading flight control software verification activities for a large commercial program. He provides the technical direction, training, task assignment, tracking, reporting, and has instilled confidence and trust with the customer. In support of milestones, he's demonstrated considerable initiative and technical knowledge by performing the technical work on critical items. Brent possesses a combination of technical excellence and positive leadership attributes that make him an effective leader and mentor in our organization.

Sara Jackson
BRPH
Structural Engineer

Sara is a structural engineer at BRPH making contributions across multiple sectors that include education, government, aviation, commercial, and industrial manufacturing. Her design experience in feasibility studies, conceptual design, analysis, value engineering, and construction administration have given her notable project experience with industry leaders like Boeing, Northrop Grumman, and JetBlue. A graduate of the University of Central Florida in civil engineering, Sara's value to the firm is compounded by her proficiency in structural steel, reinforced concrete, masonry, light-gauge steel, and foundation design. She also has an extensive seismic and hurricane wind force background and vast experience working in Revit, AutoCAD along with an assortment of analysis software.

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Engineering Better Outcomes.

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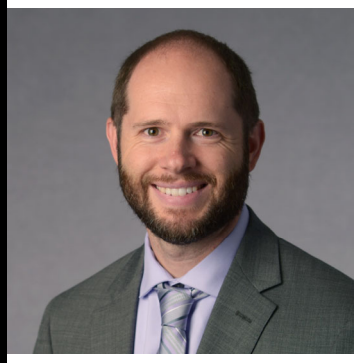
Outstanding Engineering Achievement Merit Awards

Joshua Bennett
Northrop Grumman Aerospace Systems
Principal Test Conductor

Josh is the sole Mission Systems Northrop Grumman Flight Test Engineer (FTE) at the Pax River E-2D Integrated Test Team (ITT), and as such, supporting the Counter Electronic Attack (CEA) radar flight test program. In this capacity, Josh has been absolutely critical leading the initial CEA test effort at NAS Patuxent River. Josh expertly mentored two junior engineers and worked hand-in-hand with his government counterparts, the Navy Radar Lead FTE and Project Officer, to expeditiously create, route and get approval for the CEA test plan. Josh also took initiative to become the ITT's liaison between the CEA test team and the Integrated Product Team (IPT). His communication skills combined with self-created tracking products shared across Navy and civilian leadership in the ITT, IPT, NGC, and Lockheed Martin have made him an invaluable team member asked for by name. He is often cited as a critical "right hand man" by his Project Officer and his efforts are directly responsible for the initial CEA test effort not only starting on schedule, but achieving the nearly unheard of performance of getting in front the test point burn curve (executing at a higher rate than planned). He has been absolutely crucial to the position he is currently in. He has not explored beyond his position here.



William Freed
Northrop Grumman Aerospace Systems
Staff Engineer Software

Will's personality, technical competence and unceasing desire to learn have been recognized by Northrop Grumman Engineering leadership. Will is and continues to be instrumental in the mentoring of new and emerging engineering talent. Because of these talents and skills, Will has been identified as a Deputy Chief Engineer for modification efforts. His performance and products within his tenure as Deputy Chief Engineer have been outstanding and are consistent with his nomination for Outstanding Engineering Achievement Award. Achievements include: Active CompTIA Security+ certification, Received E-2 Vice Presidents Coin for technical leadership in 2017 for helping integrate an automated code analysis and model creation tool, Presented paper on "Applying Kalman Filters to Non-Linear Systems" at 2012 NG Electronic Systems Symposium, Completed NGES Early Career Leadership Training Program, Led the SW preparation for the first ever E-2 Agile Release Backlog Review (RBR), Led the AMC IPT's transition to Agile across engineering disciplines and cost/schedule management, Worked with senior leadership to develop multiple Courses of Action (COAs) for the Navy to help them address budget and schedule pressures due to 2017 Continuing Resolution. This ultimately led to the redefinition of future software releases such that key warfighter capabilities will get to the fleet without affecting IOC. oLed Japan E-2D SW efforts, as well as working to ensure Japan-unique E-2C software changes were correctly integrated into Japan E-2D.

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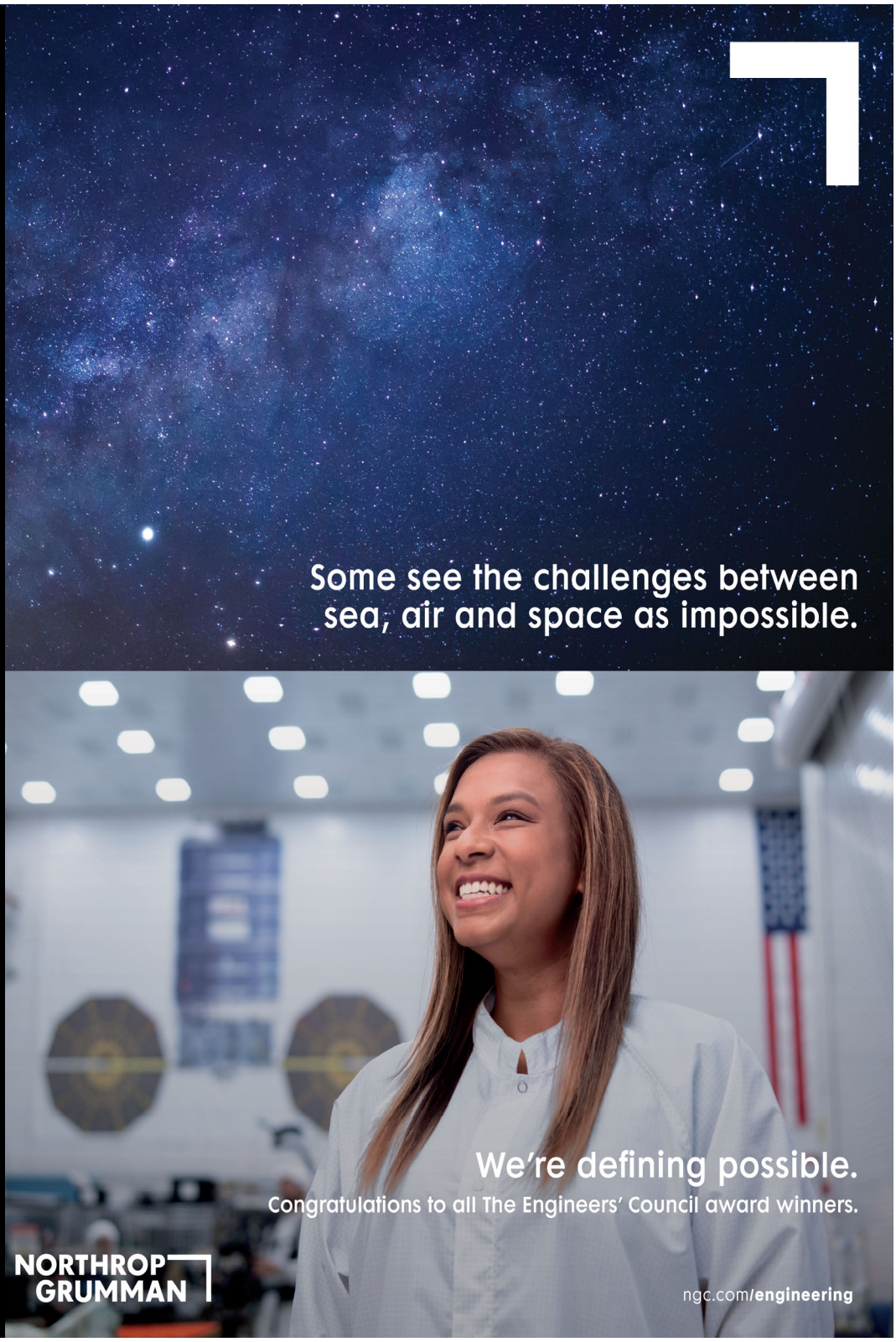

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Outstanding Engineering Achievement Merit Awards

Jason Skopek
NextEra Energy
Senior PGD Engineer

Jason is a controls engineer for NextEra Energy Resources' wind turbine engineering team. Recently, he has been reviewing and modifying OEM wind turbine control logic to decrease the number of wind turbine faults to reduce operation and maintenance costs. To date, Jason has made several code corrections to the OEM logic. These changes have prevented several million dollars of lost revenue. He has also enhanced our diagnostic capabilities for better troubleshooting of wind turbine faults by our technicians. Furthermore, Jason has made it possible to dynamically change certain control parameters, which enables the wind turbines to respond to inputs from an artificial intelligence controller, a wake steering controller, an aux power controller, as well as an advanced curtailment controller.

Miguel Gonzalez
NextEra Energy
Principal PGD Engineer

Miguel is a principal engineer in NextEra Energy Resources' wind engineering team responsible for mechanical systems. He has led a key project to develop a first-of-its-kind main bearing for wind turbines that can be installed up-tower – a split main bearing. Two prototypes have been developed and installed on NextEra Energy Resources wind turbines proving the concept. Miguel's innovation will allow wind turbine owners to replace their wind turbine main bearings up-tower at a significantly lower cost than traditional methods of replacement.

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Outstanding Engineering Achievement Merit Awards

Jorge Diaz
Pratt & Whitney
Associate Director Software Engineering

Jorge is the Pratt & Whitney Control & Diagnostic Systems Manager & Technical Lead for Adaptive Engine control systems. Jorge has worked several adaptive engine control programs and has led software and hardware teams in creating new technologies for future jet engine production programs. He has led the Adaptive Technical controls software and hardware teams as the Integrated Product Team Manager and Technical lead. He has matured technologies in the Full-Authority Digital Engine Control (FADEC) hardware and software and in the Prognostic Health Monitoring area for use in future adaptive production engines.

Tim Polick
Pratt & Whitney
Senior Manager, Control & Diagnostic Systems

Tim's contributions have been instrumental towards the advancement of the state-of-the-art in jet engine control systems for Special Military Programs. Specifically, Tim's leadership towards the definition and coordination of requirements, design, development, implementation, design verification and test of advanced control systems have enabled Special Military Programs to meet challenging objectives and advance the state-of-the-art in technology. From a leadership and professional standpoint, Tim has been an exceptional role model for our Engineering staff. He excels in a broad range of competencies and his collaborative work ethic is exemplary. Tim always goes above and beyond to mentor other engineers in the organization to further advance our collective knowledge. He readily shares his knowledge with others and his vast technical expertise, positive personality attributes and patience make him a highly effective mentor.

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Outstanding Engineering Achievement Merit Awards

Christine Kelsey
Pratt & Whitney
Flight Test Instrumentation Engineer

Christine is now the lead engineer for two programs within the group. Christine has become the "go to" engineer and has been getting the groups most technically challenging programs. She is a focused individual who works very hard to meet all of her objectives and deliverables, on time and on budget. She pays close attention to details of the task she is working on and is always looking ahead to make sure she has anticipated possible problems and addresses them in her planning work. Christine works well in a team environment and frequently directs the efforts of 2-3 junior engineers or technicians. She is not afraid to propose solutions and then alter her solutions based off of feedback from her team. She values everyone's input and fosters a great team environment. She is a pleasure to work with and is well respected by ever one in the group and our customers. Christine works closely with external customers, interacting with our airframe customers like Airbus. She has earned the respect of her counterparts at these companies.

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Outstanding Engineering Achievement Merit Awards

Corry Johnson
Aerojet Rocketdyne
Manager – Aero Thermal and Fluids Engine Systems

Corry's accomplishments are vast and have played a relevant role in the development and advancement of air breathing hypersonic propulsion technology. He has authored a vast number of publications but more are either classified or have restricted distribution requirements so they cannot be cited in this nomination. He has also develop a number of analytical tools many rooted in empirical results that have become the standard analysis methodology for scramjet design. Unfortunately due to security requirements details of these accomplishments cannot be described in this nomination. He is a member of AIAA.

Lourdes Avellana
Aerojet Rocketdyne
Sr. Engineer

Lourdes has been a integral part of the RL10 production team leading the Project and Systems requirements functions. Her daily focus has been to integrate the multiple production engine models to create commonality and cost reduction opportunities within the RL10 engine family. Her determination and rigor to complete complex engineering tasks has resulted in a delivered product that meets customer requirements as well as Aerojet Rocketdyne's for technical, cost and schedule. Lourdes leads or is a key member of several key functional production processes for the RL10 production engineering team such as configuration integration lead, production lock down lead, engine change board coordinator. Lourdes has also lead or participated in several efficiency teams to help the RL10 production team meet target costs. RL10 end items reduction and RL10 change process teams have had a significant impact on the processing cycle of the RL10.

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Belcan
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FPL/Next Era Energy
Lockheed Martin - Sikorsky Aircraft
Northrop Grumman
Palm Beach State College
The Weiss School

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Outstanding Engineering Achievement Merit Award

Chelsea Bohannon
Aerojet Rocketdyne
Sr. Engineer

Chelsea has been consistently providing key leadership to numerous RL10 investigative Teams, driving efficient use of our resources, and keeping team members focused and organized on corrective solutions. Her work ethic, and focus on results, allows her to lead team members to uncover the likely contributors to vital hardware anomalies, and determine technically strong solutions. In addition, she diverted investigation activities where appropriate in order to support flight clearances enabling not disrupting the customer's normal flight preparation flow. Chelsea's dedication to the RL10 program is an excellent example of the quality engineering support that contributes to the RL10 upper stage engine providing reliable propulsion to our nation's space exploration and national defense customers for decades.

Rochelle Wunderlich
Aerojet Rocketdyne
Manager, Values

Rochelle pulled together and managed the RL10 PPS review Team with outstanding success. Her unique knowledge of System Requirements flow protocol, and ability to manage complex team efforts, have allowed her to keep this difficult effort focused and moving forward. Results will enable RL10 to publish revised and more comprehensive PPS documents in the future, will greatly eliminate the potential for future requirements escapes, and help RL10 maintain providing quality products to our expanding customer base. This effort was essential to RL10 modernizing our requirements management process and verification database, especially now that the RL10 has recently greatly expanded our customer base from one to three, and are expanding our production engine model inventory from two models to over ten.

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The Wolverine CubeSat Development Team (2015-2020)

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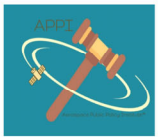
"Let's (continue to) go to Space"



"The AIAA Palm Beach Section congratulates the 2020 Engineers Week Honors and Awards Banquet Winners for your outstanding achievements and dedication to the engineering profession".

Special congratulations to the 50+ year AIAA Service Award Recipient Dr. Joseph Stregack

Special recognition for AIAA Icons Jerry Grey and Don Richardson

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Project Awards

Lockheed Martin - Sikorsky Aircraft

Defiant Flight Test Team

Team Leader: Pete Ladyko

Team Members: John Cox, Troy Artman, Felipe Ortega, Max Koessick, Norm Connor, John Herter, Skyler Mondell, Amore Timpe

Project Awards

Lockheed Martin - Sikorsky Aircraft

Hybrid Range Extended VTOL

Team Leader: Jay Monahan

Team Members: Dan Bazzani, Tad Mondell, Mike Curkowski

Project Awards

Northrop Grumman Corporation

E-2 SIL Multi-Level Security Upgrade

Team Leader: David Berkman

Team Members: Steve Heagney, Bob Armenti, Kent Haley, Mike Evans, Monica Owen, Don Weston , Ray Skaddan , Chris Segarra, Pat Chambers

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Project Awards

BRPH

Universal Studios Hagrid's Magical Creatures Motorbike Adventure

Team Leader: Brian Curtin

Team Members: Gayane Acopian, Jose Benitez, Doug Wohlert, Mohammad El Habbal, Shawn Goode, Bernard Manuel

Project Awards

Belcan
Software Development of EPIC Assurance Tool

This team's major accomplishment was the development of the EPIC Assurance Tool software. This tool automatically works its way through directories to check files for proper export markings against the latest standards. In addition it verifies the consistency of the markings as well as searches for any omissions throughout the different levels of the document including embedded files. Usage of this tool mistake proofs potential export issues, thereby protecting ourselves, the customer and our national interests. This project was led by the team here in the West Palm Beach, FL office.

Belcan

Belcan Software Team
EPIC Assurance Tool Development

Adithya Gandhavalla
Lead Engineer - Software

Jonathan Krieger
Project Manager

Madhu Mudiam
Technical Lead - Software

Mark Southwick
Senior Engineer - Software

Aurobindo Rout
Engineer - Developer

Deepesh Parmar
Engineer - Developer

Keith Onofry
Senior Tech Lead - Software

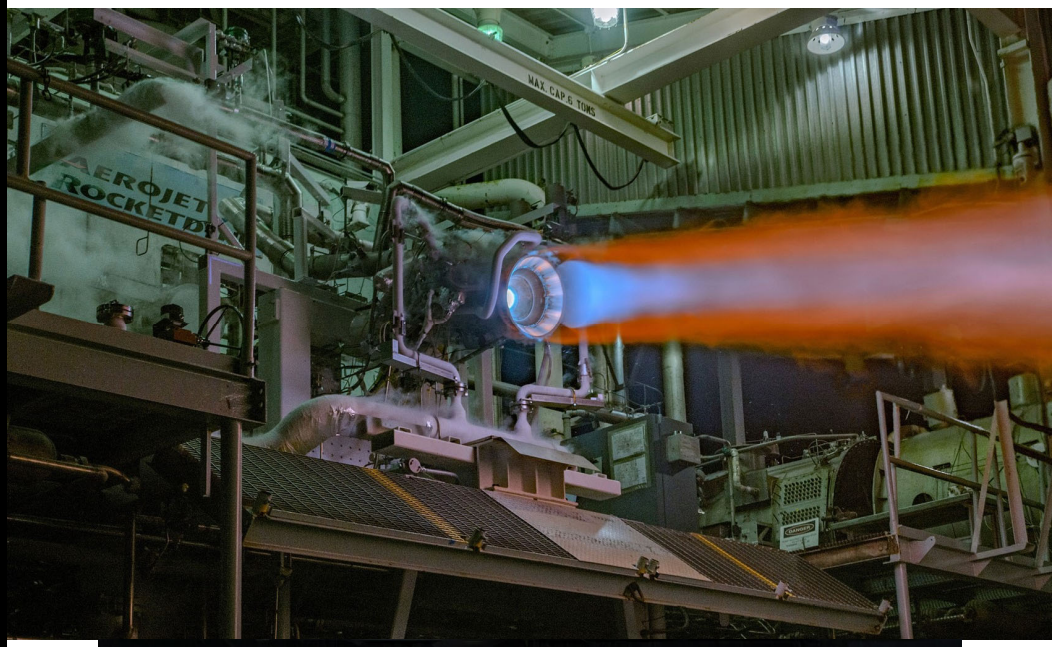
Project Awards

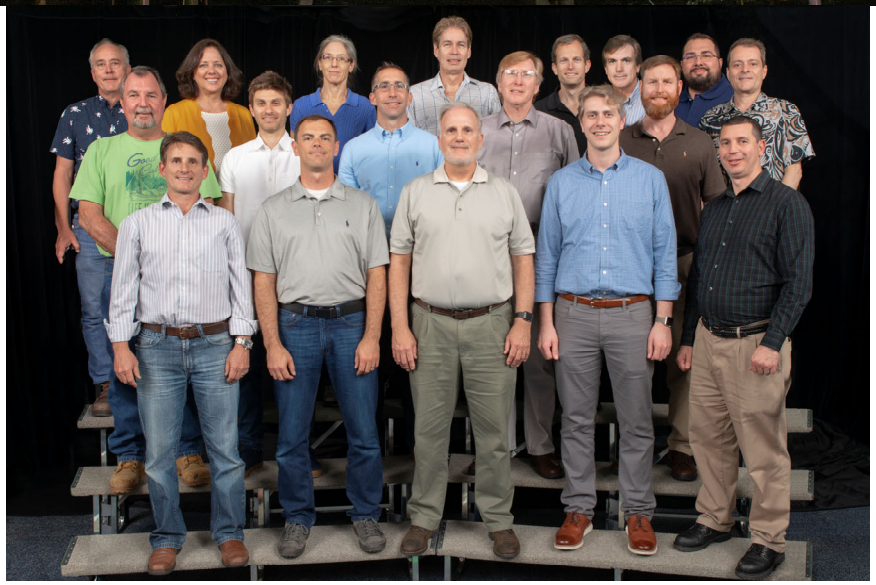
Aerojet Rocketdyne

RL10CX Prototype Engine Test

Team Leader: Robert Grabowski

Team Members: James Nord, Kyle Landry, Mark Krance, Peter Keith, Brian Lager, Joseph Menen, Mark Ricciardo, Ehren Holt, Alan Antosz, Brett Austin, Jo Jackson, Corey Brown, Mitch Brown, Lee Ryberg, Jeffrey Breen, Ginger Clayton, John Elieson





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Project Awards

Pratt & Whitney

KC-135/F-16 APU Component Improvement Program

Team Leader: Vladimir McKenzie

Team Members: Michael Kearney, Amar Rajbhandari, William Volmary, Fred Overman, Bernardo Sandoval, Pavel Jimenez, Anatoly Plaks, Parag Mathuria, Jason Meert, Nathaniel Estes, Cesar Astudillo, John Kapala, Malvin Cedeno-Jimenez, Sami Chukrallah

Project Awards

Lockheed Martin

Maritime Autonomous Systems

Team Leader: Sekhar Tangirala

Team Members: Katie Janney, Stephen Corey, Nate Sebok, Corbin Spells, Brian Wagener, James Witt, Christian Coury

Project Awards

Northrop Grumman Corporation

Avionics Flight Management Computer (AFMC) - Cross Domain Solution

Team Leader: Jeremy Rybicki

Team Members: Alex Garcia, Jeff Poor, Robert Burns, Darryl Clark, David Berkman

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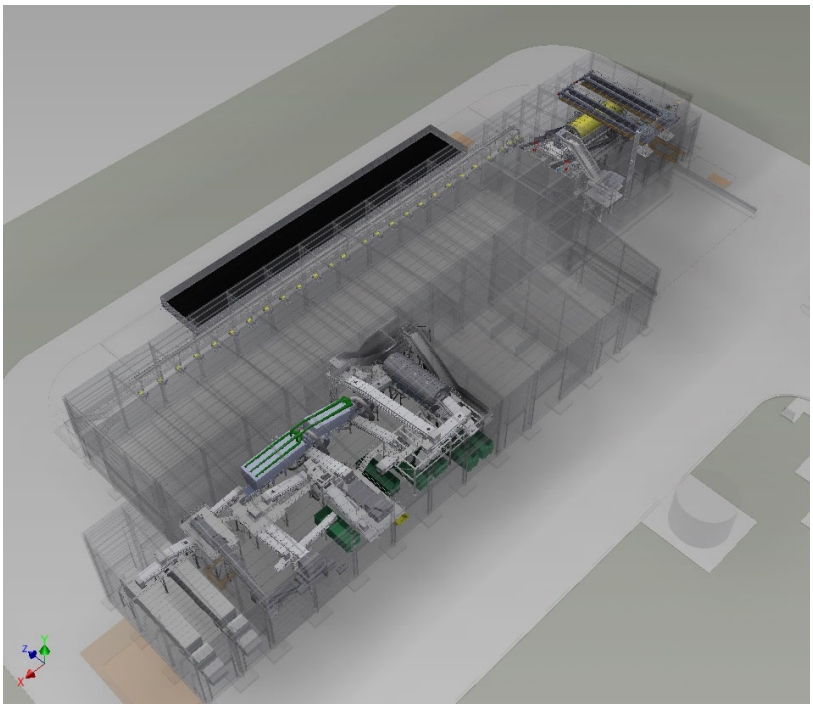
Project Awards

BRPH

Entsorga West Virginia Recovery Center

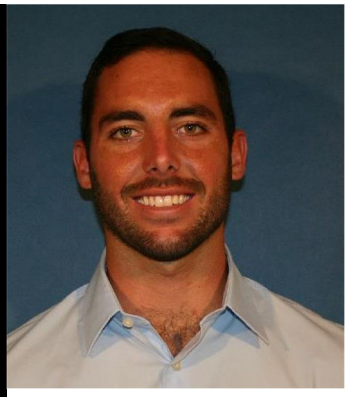
Team Leader: Cris Vigil

Team Members: Andrew Miller, Marti Watts, Don Boline, Gayane Acopian, Shad Traylor, Jay Craytor, Jason Abbott



ENTSORGA West Virginia

Distinguished Future Technology Leader Award



Jake Rose
Agilis Engineering, Inc.

Jake was a leader amongst his peers at FAU and has continued to be a leader at Agilis. He strives for excellence in each job he does and delivers quality to both his teammates and customers.

Vicente Trujillo
Agilis Engineering, Inc.

Vicente's contribution to the profession includes an ability to quickly learn customer software systems and effectively integrate them onto the company hardware platform. He also demonstrates a deep passion for developing a thorough understanding of customer legacy technology and then leveraging this knowledge into current jobs.

Kyle Kreiter
Aerojet Rocketdyne
Engineer, Systems Development, Verification & Test

Kyle is an Engine Systems Test Engineer in the Systems Development, Verification, and Test discipline at Aerojet Rocketdyne. He has been with Aerojet Rocketdyne for 3 years. Starting in mid-2018 through 2019, Kyle was assigned as the Engine Test Lead for the Aerojet Rocketdyne RL10C-3 engine qualification test program. The RL10C-3 engine was selected by NASA to power the Space Launch System Exploration Upper Stage. During this time, Kyle led the Boost Phase Environmental and Inlet Line Loads testing of the RL10C-3 liquid upper stage engine which led to the successful flight qualification of the engine which was chosen by NASA to power the Space Launch System Exploration Upper Stage.

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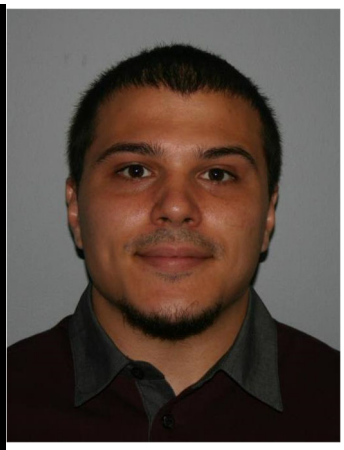
Distinguished Future Technology Leader Award



Alex Jerez
Agilis Engineering, Inc.

Alex has already demonstrated the ability to learn complex principles and apply them in meaningful analytical ways. His self-developed film-cooling program is a brief example of ways in which he contributes to the profession and moves the calculation methods forward.

Nicolas Pelaez
Belcan
Engineer - Aerospace Systems

Nicolas has developed into a leading design force within the Belcan data analytics organization. His work has contributed significantly to advancing methods to track and predict the state of jet engine thrust performance for fleets of active production engines. And he has done this by using modern, practical machine learning concepts to add new life to data generated from legacy engine modeling programs developed over 30 years ago. Nicolas also takes the time to enthusiastically share his knowledge with the less experienced members of his team, which has allowed the team's overall skillset to grow significantly.

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Distinguished Future Technology Leader Award

Nicholas Reardon
NextEra Energy
PGD Engineer

Nick is a role model in practicing and living the values associated with the company's strong safety culture, while performing work at plant sites. He demonstrates strong technical leadership skills and innovative thinking that has already led to significant process improvements in planning and management-of-change tools.

Michael Wertz
NextEra Energy
PGD Engineer

Mike earned his Six Sigma Green Belt and his project reduced operating costs by implementing proactive process changes in addressing unexpected pump failures. He championed the implementation of wind turbine gearbox in-line oil particle counters, by utilizing artificial intelligence to create a linear regression models on the correlation of oil particle accumulation to operational conditions to determine gearbox remaining useful life.

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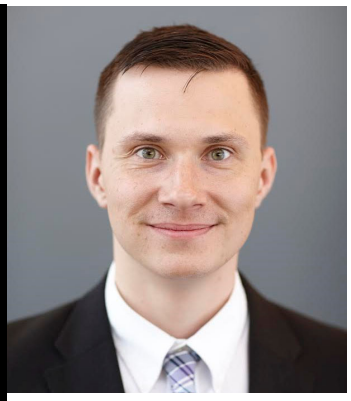

Dr. Oleksandr Kravchenko
Old Dominion University
Assistant Professor

Dr. Kravchenko is an assistant professor at Old Dominion University working on understanding of manufacturing phenomena and composite mechanical behavior to lead the advancement of novel composite technologies.

Joshua Lieberman
Pratt & Whitney
Project Engineer

Josh has served as a design engineer for 2 years and as a project engineer for 1 year at Pratt and Whitney. He has helped manage a team tasked with creating a CMC turbine vane.

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Colby White
Sikorsky Aircraft, a Lockheed Martin Company
Aeronautical Engineer

Colby has an excellent understanding and adaptability regarding the flight control development/testing of the CH-53K. He is the key interface between Sikorsky design, the pilots, and the customer for test results and design requirements and modifications.

Denn Auza
Sikorsky Aircraft, a Lockheed Martin Company
Sr. Aeronautical Engineer

Denn is a dynamic supporter of flight test on the CH-53K. Provides quick response and extremely detailed and thorough documentation of dynamic impact (RAP) test requirements that has led to faster approval by our Navy customers. Selfless dedication to getting the job done with a very high degree of technical excellence and understanding when considering his years of experience.

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STEM Educator Award

Elizabeth Wenk
West Boca Community High
Physics/Astronomy Teacher

Elizabeth's work as a science teacher in the area of physics and astronomy, teaching and inspiring students in science and engineering, as a SECME coordinator, teaching, organizing and encouraging students and particularly females for engineering design and creations, as a curriculum developer, as a FermiLab researcher, as a student advisor and advocate Member of the Florida State Standards Review Committee, Florida Department of Education Physics/Astronomy Teacher, West Boca Raton Community High School, FL, Presenter at NSTA National Conference, Boston, MA; Research Associate, Fermilab: Batavia, IL; SECME Coordinator, West Boca Raton Community High School, FL; District Chairperson of the Palm Beach Regional Bridge Challenge, Palm Beach County, FL; Presenter at Palm Beach County Science Teacher Symposium, Palm Beach County, FL; Curriculum Writer and Fellow, digedu Enterprises; Inspiring STEM Educators Research Study, EDC Center for Children and Technology; WNET; NASA.

Andreja Brankovic
NextEra Energy / University of Miami
Staff Engineer

Dr. Brankovic regularly mentors interns, rotational and new-hire engineers, as well as Six Sigma candidates on Florida Power & Light's (FPL) turbine team. He has served as Adjunct Professor at the University of Miami, teaching a variety of courses in the Department of Mechanical Engineering, and developed the Combustion Fundamentals Course taught at FPL. Andy has collaborated extensively with scientists and engineers at major universities, NASA and U.S. Air Force research centers. He has authored or co-authored more than 30 refereed journal publications and conference papers, winning a Best Paper Award at the AIAA Aerospace Sciences Conference. Andy initiated the company's combustion turbine knowledge share network, and wrote more than 60 original articles, winning two consecutive Diamond Awards for Excellent Content. He is a Florida Professional Engineer and a certified Six Sigma Black Belt. Educational and leadership contributions include: R&D documented by journal and conference papers with a focus on innovative technologies; University collaboration on big data methods for predictive analytics for gas turbine health monitoring; and Major technical contributions in the field of computational fluid dynamics, including turbulence and combustion modeling and high performance computing, with applications to power generation, aircraft and space propulsion systems. Major technical contributions in the field of laser Doppler anemometry and data acquisition applied to the high-accuracy measurement of multi-phase flows. Successful commissioning of liquid fuel operations on dual fuel combined cycle fleet of power turbines.

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Quality Engineer of the Year Award

Gilberto Lugo
Lean ISO Experts, Inc.
President

Gilberto's accomplishments include: Past Chairman of the SME (Society of Manufacturing Engineers) Southeast Florida; Past Chairman of ASQ (American Society for Quality) Palm Beach; Serves on multiple Board of Directors and has been a keynote speaker at local, national and international conferences speaking on Quality and Improvement; Providing mentoring and guidance to people getting started in the Quality Field; Contributes over 15 days per year as a volunteer in the Quality Management Field.

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Distinguished Engineering Achievement Award

Claude Joyner, II
Aerojet Rocketdyne
Fellow-Mission Architecture

During Russ' exceptional career in the Space and Launch Systems Industry, he has been an impactful member of the US and international aerospace community and an outspoken advocate in promoting the aerospace industry within peer organizations, academia and diverse organizations of the US Government. Russ has been a national leader in the pursuit of Systems Analysis, Architecture, and Propulsion Integration for programs that have shaped US National Defense and civilian space exploration. His accomplishments span a wide range of unique Systems Architectures and propulsion technical innovations. He has had a lead role in the design and integration of our nation's most relevant launch systems including integration of the SSME, RL10, and RD-180 rocket engines into the Space Shuttle and the Atlas and Delta vehicles, playing a key role in the development of the USAF EELV System. He also has played, and continues to play, a key role in the development of scramjets, including the engine that powered the USAF X-51, as well as advanced concepts for nuclear propulsion. Russ' work in hypersonics has spanned nearly four decades; during the development of NASP in the 1980's, he developed a unique trajectory optimization program that permitted Pratt & Whitney to optimize the integrated rocket/ram/scramjet propulsion designs to create an integrated performance evaluation, a key element in identifying performance closure issues and solutions to the National Team.

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Distinguished Engineering Achievement Award

Jeret Sayger
Pratt & Whitney
Senior Process Engineer

During 2019, Jeret's contributions to the Military Engine Assembly Team has been invaluable. In addition to his regular responsibilities as a Process Engineer, Jeret went above and beyond his responsibilities by taking on Process Improvements projects to ensure our assembly processes are robust and repeatable across the board. One of the key projects Jeret owned was to improve the high rotor joint torqueing process. He created a concept for a tool that changed the way we do the work today. The tool prototype will hydraulically load the joint while performing the initial torqueing sequence ensuring proper seating of the joint. His idea evolved to what the Tiger Team referred to as the "Chicken Foot" tool which was tried and was finally introduced to Production in November 2019. We have seen improvements in the test yield and overall minimization of engine vibration issues. "Jeret's contributions to Tiger Team efforts are far more than we can put into words", said Brent Germain, Tiger Team Lead. He's also been instrumental in the incorporation of process changes, and especially in the effort to ensure that the WPB assembly process was robust. Jeret has been part of the Aerospace industry for almost 15 years and has held various technical roles. His achievements include:

- Performed jet engine disassembly and rebuilding of F100-PW-220E engines
- Performed operational maintenance duties on F-16 fighter aircraft with F110-GE-129 engines.
- Supported rotor dynamic operations and data analysis by using Six Sigma techniques for major rotating assemblies for F135, F100, and GG8 engines.
- Assisted in program transition of auxiliary power unit production from Pratt & Whitney, San Diego to Pratt & Whitney, West Palm Beach.
- Facilitated the implementation of Solumina for GG8, F100, and F135 product lines.
- Utilized and created standard work for process enhancement.
- Implemented and executed engineering changes and correct work instructions affected by changes based on engine effectivity.
- Developed production assembly tooling to streamline assembly process.

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Distinguished Engineering Achievement Award

Ken Stenroos
NextEra Energy
Sr. Director, Engineering

Ken is senior director, engineering & technical services, in the Power Generation Division of NextEra Energy, Inc. He is accountable for providing the engineering and technical support for generating equipment assets for the company's competitive generation subsidiary, NextEra Energy Resources, and its rate-regulated electric utility, Florida Power & Light (FPL), including designated equipment of the nuclear fleet. Ken has held this position since February 2014. In 1986, Ken joined FPL on the Power Delivery team as a service planner. After holding a variety of other positions within engineering and power plant management, he became senior director generating equipment, technical services for the Power Generation Division. Other positions he has held include FPL's Port Everglades Plant production manager, as well as technical manager for Broward Generation. Ken has been a registered Professional Engineer in the State of Florida since 1992. He is, or has been, a member of the IEEE Power Engineering Society, IEEE Synchronous Machinery Sub-Committee, and IEEE Standards Association. Ken served as the co-chair of the NERC Generator Verification Standards Drafting Team for five years. He is currently a board member of the North American Generator Forum. Ken is a dedicated electronics hobbyist, and repairs broken electrical and electronics items for family and friends as recreation. Ken currently leads a team of 65 professionals responsible for technical support for all of NextEra Energy's generating plant equipment, more than 48,000 megawatts. He has led a cross-functional team to reduce unplanned expenditures for NextEra Energy's fossil generation fleet. Under his leadership, the team achieved a 45% reduction in these expenditures. He has led $40 million stator rewind program for rewinding GE liquid cooled 400 MW class generators. Ken is a member and sub-team leader on NERC Project 2007-9 generator verification drafting team that wrote six standards for characterizing generators for modeling.

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Distinguished Engineering Achievement Award

Mario Loaiza
Jacobs Engineering

Mr. Loaiza has 24 years of experience in business development and Water and Wastewater Utility Program Management and engineering design. His experience includes managing a large client portfolio and directing capital improvement projects, overseeing the development of engineering master plans, engineering design and operations of water and wastewater treatment facilities, land development design and project management. He is well versed in many aspects of project delivery including treatment plant design and operation, water distribution, sewer collection, drainage, project manual/project specification production, probable cost estimates, and conceptual reports. Strengths include strong client relationships, management skills, writing, presentation and verbal communication skills as well as the ability to analyze raw data in relation to engineering. He has extensive knowledge of long-range planning, budgeting, and development of capital plans, regulatory compliance, inter-government relations, emergency response, hurricane preparedness and customer service. He currently serves as the Southeast Florida Client Account Manager for Jacobs. The services that Jacobs provides include program management, engineering design and construction services, design-build, public private partnerships, and staff augmentation among others. He currently manages a client portfolio including Palm Beach County, the City of West Palm Beach, SFRTA (Tri-rail), the South Florida Water Management District, FPL, PBI Airport, Port of Palm Beach, the City of Fort Lauderdale, Broward County, FLL Airport, Port Everglades, and many other municipal governments and private clients. Jacobs is ranked #1 on Engineering News-Record (ENR)'s Top 500 Design Firms list and is ranked #1 in 20 categories overall. He holds a bachelor's degree in Civil Engineering from the University of Alabama and received his fellowship from the American society of Civil Engineers (ASCE) in 2018. In addition, He was named 2019 Government Engineer of the Year for the Florida Section of ASCE and has been associated with several Professional organizations including AWWA, APWA, ASCE, FES and others. He is the son of immigrant parents from Costa Rica and Cuba and spent his childhood as an "Army Brat" living and traveling all over the world. As a student, Mario was enrolled in 11 schools before miraculously graduating from High School. Mario has been married to his wife Pilar for 17 years and they are the proud parents of Paulina who is as pretty as Pilar but who is MUCH smarter than Mario! Mario's love for travel began early and he has visited over 30 countries across 4 continents. He enjoys movies, the outdoors and spending time with his family. Mario's Olympic diving career ended abruptly when his BMI left him unable to sink. The world surely lost a champion.

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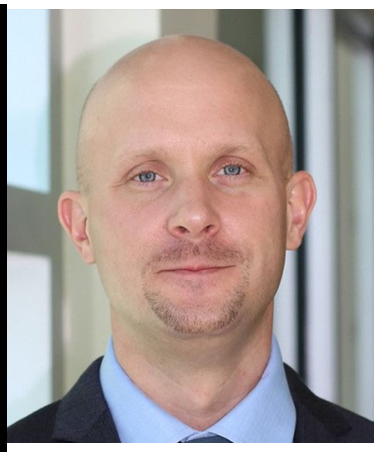
Distinguished Engineering Educator Awards



Jason Hallstrom
Florida Atlantic University
Professor and Director I-SENSE

Dr. Hallstrom is committed to developing the next generation workforce. Throughout his career, he has offered a range of courses, spanning introductory computing curriculum to advanced graduate theory. His teaching evaluations have been consistently excellent. At the same time, he is a leader in the computer science pedagogy community. His team's work in developing new methods, materials, and tools for introducing analytical reasoning and computer programming has been supported through multiple awards from the National Science Foundation. The results of these programs are documented through publications in the premier venues for educational research in computing. His team's work in introducing computer science principles in K-12 environments is similarly documented in the literature. As noted above, those activities have been used to engage more than 800 middle and high school students, most members of underrepresented groups in computing. He additionally serves as the founding faculty advisor to Florida Atlantic University's chapter of the Association for Computing Machinery's Council on Women. He has advised eight Ph.D. dissertations, nine M.S. theses, many other non-thesis graduate students, and sixteen undergraduate researchers. He is currently advising one Ph.D. student, two M.S. students, and one undergraduate researcher. Dr. Hallstrom joined Florida Atlantic University in January of 2015 to establish the Institute for Sensing and Embedded Network Systems Engineering (I-SENSE, http://isense.fau.edu). As Director of I-SENSE, he coordinates FAU's activities in Sensing and Smart Systems, one of FAU's four principal areas of strategic investment over the next decade. The pillar's title reflects two interconnected areas of emphasis. The first is in the area of sensing, ranging from the capture of chemical parameters in ocean ecosystems, to the capture of physiological parameters in patients and athletes. The second is in the area of smart systems, which rely on networked sensors to provide real-time awareness of conditions, trends, and patterns to support improved decision-making and automated control of the sensed environment, vehicle, or structure. The tremendous potential of smart systems is evidenced by the emerging Internet of Things and the rapid adoption of smart systems across disparate domains, from ecology, to transportation, to geriatrics, to sports performance training, to ocean science, to education - among numerous others.

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Distinguished Engineering Educator Awards

Javad Hashemi
Florida Atlantic University
Associate Dean for Research and Professor

Dr. Hashimi is Associate Dean, College of Engineering and Computer Science, Florida Atlantic University. Boca Raton FL; He was the Chair of Department of Ocean and Mechanical Engineering Department, Florida Atlantic University from 2011 to 2018. from 2010 to 2011, he was the Interim Chair, Bob L. Herd Department of Petroleum Engineering, College of Engineering, Texas Tech University. 2007-2011, he was the Associate Dean of Research, College of Engineering, Texas Tech University, 2005-2007 Director of Graduate Studies and Advisor, Department of Mechanical Engineering, Texas Tech University. Dr. Hashemi has served as the Chair of Ocean and Mechanical Engineering department for the past 7 years. In his role as the department chair, Dr. Hashemi has worked with the faculty and students in elevate the stature of the department in terms education and research nationally and internationally. The graduates of the department of Ocean and Mechanical Engineering receive an outstanding education that is second to none. New areas of research related to robotics, biomedical devices, and bioinspired engineering have been developed in his department. The extracurricular student activities have expanded and the students have successfully competed with the best and the brightest across the nation and internationally. The quality and quantity of research has increased in the Dr. Hashemi's department and the funding sources have expanded to NSF and NIH. The number of degrees awarded in both Ocean and Mechanical Engineering at both undergraduate and PhD levels have increased significantly. During the past year Dr. Hashemi was promoted to Associate Dean for Research and is assisting the Dean of the college of Engineering with her research priorities. Dr. Hashemi is passionate about teaching and educating the workforce of the future and received the Distinguished Teacher of the Year award at FAU in 2014.

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John J. Guarrera - Engineering Educator of the Year

Madasamy Arockiasamy
Florida Atlantic University
Professor of Civil, Environmental and Geomatics Engineering

With more than 40 years of research and teaching in various institutions in India, Canada and the US, Dr. Arockiasamy has not only made significant contributions to technology advances in the area of materials, structures and renewable energy, but also directed 12 Ph.D. dissertations, more than 45 MS theses to completion and numerous undergraduate research projects. As a licensed professional engineer, he has brought rich practical experience into classroom and educated graduate and undergraduate students how to relate textbook knowledge to engineering practice. Despite his busy research and teaching schedule, he has always placed student success as his priority by constantly providing advice to senior capstone design projects as well as design practice for ASCE regional student competitions. He has also been very active in community outreach to local high school students and encourage them to pursue engineering careers.

Dr. Arockiasamy continues to maintain an excellent teaching record in terms of classroom lectures and supervision of graduate students. To maintain active research, he meets with funding agencies/industry and follow up with research proposal submissions. He takes an active interest in helping junior faculty members. He was elected as the College Faculty President and constantly advocates for faculty and serves as the bridge between the College of Engineering and Computer Science Faculty and the University Administration. He also is actively involved serving the needs both within and outside the university. His dedication to academics has won great respects and admiration from his fellow faculty members and students.

Dr. Arockiasamy is currently serving in several national organizations-Transportation Research Board Committees ((National Academy of Sciences), American National Standards Institute (ANSI), American Society of Civil Engineers (ASCE), and American Concrete Institute (ACI), as well as U.S. Subject Matter Expert (SME), Technical Committee, International Electro-technical Commission (IEC TC 114/PT62600-2), Scientific Committee and Session Organizer, Ocean Renewable Energy, OMAE 2018, and many more.

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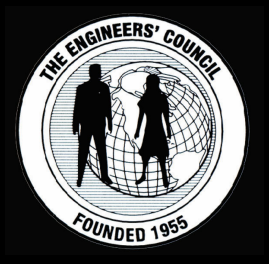
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