

RUTGERS DEPARTMENT OF MECHANICAL
& AEROSPACE ENGINEERING



A social gathering that brings together students, faculty, alumni and professionals from top companies in mechanical and aerospace engineering.

November 9th, 2023

**INFORMATION
BOOKLET**



Johnson & Johnson

Carolyn Andia

CAR-T Manager, Supply Chain Business Process Lead



Carolyn is a highly skilled and accomplished engineer with experience in the Aerospace and Healthcare industries. She has held roles such as System Controls Engineer, Quality Engineer, IT Continuous Process Improvement Analyst, Transportation Technologies Analyst, Vein to Vein Planner, and Supply Chain Business Process Manager. Through her various roles, Carolyn has been able to learn and apply skills such as lean methodologies, training, facilitation, systems testing, project management, and quality systems. Within her current role as Supply Chain Business Process manager, Carolyn works in identifying and standardizing global processes for Johnson & Johnson's innovative multiple myeloma treatment, CARVYKTI. Carolyn's strong leadership and people skills have allowed her to travel to different countries for work assignments. She is enthusiastic about mentoring and helping young professionals develop professionally.

COMPANY AT A GLANCE

INDUSTRY Pharmaceuticals
HEADQUARTERS New Brunswick, NJ
WEBSITE www.jnj.com



LoveMyTech LLC

Marc Bjorkman

President & Founder



Marc Bjorkman is the President & Founder of LoveMyTech LLC, a technology & aerospace consulting and software development company, along with technology life coaching and UAS (drone) mapping services. He also worked as a Lockheed Martin Technical Fellow Emeritus (retired) in satellite communications systems engineer with 35+ years of experience providing practical technology innovation and leadership, creative telecommunications systems solutions, effective engineering management, efficient process and product development, comprehensive communications systems testing, and operational end-use of advanced wireless and wired communications systems.

COMPANY AT A GLANCE

INDUSTRY Aerospace
HEADQUARTERS Newtown, PA
WEBSITE [www. https://lovemytech.com/](https://lovemytech.com/)

Delta Design and Consulting



Darren DeMedici

Principle Engineer, Owner



Darren DeMedici is the Principal Engineer and Owner of Delta Design and Consulting. He has been involved in product and process development for 30 years. He started his career as a machinist on the campus of MIT in the Plasma Fusion Center. He learned to fabricate other designs in the machine shop, which he has leveraged during his career. His experience includes working in the semi-conductor sector, consumer products, electronics packaging, material handling, engineering consulting and medical device design and manufacturing.

UNIVERSITY AT A GLANCE

Design and Manufacturing **INDUSTRY**
Middletown NJ **HEADQUARTERS**

Safran



Stephen Derechailo

Project Manager



As a Mechanical Engineering Rutgers graduate, Stephen began my career in a field of hands on technical work as a tool and process engineer, and over time transitioned into a project management role for new development programs within the aerospace community.

UNIVERSITY AT A GLANCE

Aviation and Aerospace Component Manufacturing **INDUSTRY**
Paris, France **HEADQUARTERS**
www.safran-group.com/ **WEBSITE**



Marotta Controls

Rob DeSimone
Engineering Manager



Rob DeSimone is currently an engineering manager at Marotta Controls, Inc for the CoRe engineering team. Project, development, and production engineering report to him, where new and legacy valves are developed for commercial space customers. At Marotta, Rob started as an intern in 2016 and worked through the engineering organization. He was involved in various space projects such as the Falcon 9, Dream Chaser, SLS, and New Glenn vehicles. Rob has a BS/MS from Rutgers University and is currently pursuing an MBA degree. During his time at Rutgers he was the Controls lead for the RFR 2016 car.

COMPANY AT A GLANCE

INDUSTRY Defense and Space Manufacturing
HEADQUARTERS Montville, NJ
WEBSITE www.marotta.com/
JOBS www.marotta.com/careers/



Lockheed Martin

Michael DiBuono
C3 Systems Engineering Associate Manager



Mike DiBuono currently works at Lockheed Martin in Moorestown NJ as a First Line Manager in the Command, Control, & Communications (C3) organization. In this role, Mike also leads a CRAD effort for the Office of Naval Research (ONR) bringing additional capability to the warfighter. At LM, Mike has worked as an intern and co-op and had spent time across the Aeronautics, Rotary and Mission Systems, and Enterprise Operations business areas. He completed the Engineering Leadership Development Program where he gained experience across the US Navy's Aegis Weapon System and growing technology areas – cybersecurity, deorbiting space debris, hypersonic missiles, laser weapon systems, and solid-state radar.

COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Bethesda, MD
WEBSITE www.lockheedmartin.com
JOBS www.lockheedmartinjobs.com

Soemens Technology



Merrill Edmonds
Senior Expert



Merrill Edmonds is a Senior Key Expert in the Future of Automation research group at Siemens Technology, Princeton, NJ. His research focuses on IT/OT technologies for manufacturing automation and robotics. Previously, he was a software engineer in the same research group. He received a BSc in Mechanical Engineering from Duke University, NC in 2012 and a PhD in Mechanical and Aerospace Engineering from Rutgers University in 2022.

COMPANY AT A GLANCE

Siemens Technology **INDUSTRY**
Princeton, NJ **HEADQUARTERS**
www.siemens.com/ **WEBSITE**
www.siemens.com/global/en/company/jobs.html **JOBS**

Kearfott



Gerald Feder
Senior Project Engineer



Gerald Feder completed a 30+ year career at Kearfott's Guidance & Navigation Division as a Senior Project Engineer. He was responsible for the design, development and production of high-accuracy, dynamically tuned gyroscopes utilized for such broad applications as the Space Shuttle, Sounding Rocket program, B-2 stealth bomber, "line-of-sight" systems for the M1A2 Abrams tank, plus various military, commercial and NASA based satellites. He has presented at the CIA and performed on-site source inspections at several miniature precision bearing manufacturers. Prior to Kearfott, he worked at Pratt & Whitney's West Palm Beach facility in the compressor aerodynamics group. Gerald received both his B.S. and M.S. in mechanical engineering from Rutgers and Rensselaer Polytechnic Institute, respectively. He has served on the advisory board since its inception.

COMPANY AT A GLANCE

Patent Law **INDUSTRY**
Philadelphia, PA **HEADQUARTERS**
www.kearfott.com/ **WEBSITE**
www.kearfott.com/careers **JOBS**



Marotta Controls

Jerry Grandov
Senior Program Manager



Jerry has enjoyed a varied career in the following fields: Consumer Electronics, Motorsports, Telecommunications, Defense and Aerospace.

COMPANY AT A GLANCE

INDUSTRY Defense and Space Manufacturing
HEADQUARTERS Montville, NJ
WEBSITE www.marotta.com/
JOBS www.marotta.com/careers/



Daimler Truck North America

Martin Hluchy
Field Sales Director



Martin Hluchy graduated from Rutgers University in May 2020 with a Bachelor of Science in Mechanical Engineering, and has spent the last two years working as a Detroit Field Sales Engineer for Daimler Truck North America. In his role, Martin interfaces with over 25 truck dealers and over 200 customers, supporting their businesses with fuel economy analysis, providing training on new products, and acting as the go-to professional between customers and engineering. Prior to his time at Daimler, Martin grew up and worked at his family's farm, and spent his time at Rutgers involved with Rutgers Formula Racing and Rutgers Salsa. Recently, Martin has also returned to Rutgers as an occasional guest speaker, hosting lectures on the heavy trucking industry, and public speaking. He holds an active Class A Commercial Driver's License.

COMPANY AT A GLANCE

INDUSTRY Industrial Vehinzel Manufacturing
HEADQUARTERS Portland, OR
WEBSITE <https://northamerica.daimlertruck.com/>
JOBS <https://northamerica.daimlertruck.com/careers/>

CodeGreen Solutions



Israel Aaron
Mechanical Engineer

Israel is a mechanical engineer with a MBA with a back ground in air emissions from mobile and stationary sources. He has also run programs for building efficiency or electrification projects.



COMPANY AT A GLANCE

INDUSTRY Energy
HEADQUARTERS New York, NY
WEBSITE www.coned.com/en/

Lockheed Martin



Ken Johnson
Retired Vice President

Mr. Johnson is a retired Vice President and General Manager of the Lockheed Martin Satellite Operations in East Windsor, NJ and in Newtown, PA. He has more than 35 years of experience with 20 years in General Management of a very high tech enterprise in a highly competitive field. Specifically, Mr. Johnson led a large organization with components in research, design and development, fabrication, and customer support of complex space systems. Ken established the Industry Advisory Board and has worked with the Department of Mechanical & Aerospace Engineering at Rutgers for 30+ years, helping students achieve their education and career objectives. Mr. Johnson received his BS in Mechanical Engineering from Rutgers University in 1966 and his MS in Engineering Management from the New Jersey Institute of Technology in 1971.



COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Bethesda, MD
WEBSITE www.lockheedmartin.com
JOBS www.lockheedmartinjobs.com



JLL

Andrew Karlovich
Commissioning Engineer



Andrew Karlovich is a Senior Project Manager with JLL's Sustainability Consulting team. Andrew works with building owners, investors, and corporate occupiers to establish strategic decarbonization programs and achieve favorable results across those organizations' triple bottom lines. Having previously worked in both Fortune 500 engineering services and boutique consulting firms, he brings a professional and engineering-oriented approach to his work. Andrew holds both an M.S. in Engineering Management and a B.S. in Mechanical Engineering from Rutgers University and is a licensed Professional Engineer (Mechanical: HVAC) in the state of New York.

COMPANY AT A GLANCE

INDUSTRY Sustainability and Energy
HEADQUARTERS New York, NY
WEBSITE www.us.jll.com/
JOBS www.us.jll.com/en/careers



JAKTOOL

Jeff Kinsberg
Visionary & Founder



Founder, entrepreneur, and visionary behind JAKTOOL. A New Jersey native, Jeff spearheads a passionate team focused on accelerating Med-Tech and next generation Military solutions to market. Founded in a garage in 1994, Jeff has grown JAKTOOL to be recognized as a precision obsessed development partner for innovative companies and the United States Department of Defense. Jeff envisioned and developed JAKTOOL's Accelerated Innovation Method™ (AIM™) which consistently allows the JAKTOOL team to outperform and deliver for our clients. During Jeff's time at Rutgers, Jeff led Rutgers Formula Racing, worked with several professors on independent study projects, and was employed by the Industrial Engineering Department on National Science Foundation backed research. Prior to perusing JAKTOOL full time, Jeff was the lead engineer for several large infrastructure projects, including launching precast roadways and novel material handling solutions for oil, gas, and nuclear. Jeff has been an active member of the Rutgers Mechanical & Aerospace Industry Advisory Board for 10 years. Jeff currently sits on the MAEIB executive board. Jeff has a BSME and has been sponsoring, coaching, and mentoring, hundreds of students within the Rutgers and regional STEM community.

COMPANY AT A GLANCE

INDUSTRY Engineering, R&D, Prototyping
HEADQUARTERS Cranbury, NJ
WEBSITE www.jaktool.com

Firmenich



John LaPadula
Senior Project Manager



John LaPadula is licensed professional engineer and senior project manager at DSM-Firmenich with twenty-five years' experience in successfully delivering designs and construction of large, complex capital projects for private and Fortune 500 clients. John holds firm project management experience with a strong focus on project controls analysis of costs, schedules, and earned values in directing teams delivering industrial projects. John has worked on projects ranging from pharmaceutical bio-technology laboratories, uranium enrichment, Petro-Chemical, automated food & beverage manufacturing, facility odor-mitigation, and high-rise data centers for the following companies: Bovis Lend Lease, CH2MHill, PSE&G, Honeywell, Urenco, Firestone, Datek Online Trading, both domestically and in Europe. John also taught the course "Construction Engineering & Management" at Rutgers in the Civil Engineering Department from 2005 to 2010. He resides close to Rutgers, New Brunswick.

COMPANY AT A GLANCE

INDUSTRY Fragrance
HEADQUARTERS Geneva, Switzerland
WEBSITE www.firmenich.com
JOBS www.firmenich.com/careers/en

Lockheed Martin



Florette Laurizio
Senior Manager, Global Commercial Business Development



Florette Laurizio is the Senior Manager, Global Commercial Business Development for Lockheed Martin Commercial Communications Space, where she manages LM's commercial space customer relationships, sales and marketing processes, and operations. Florette has over 40 years of commercial satellite communications industry experience across satellite and service businesses. She has held various senior management positions in Business Development, Marketing, Sales, and Capture Management for GEOshare, a wholly owned subsidiary of LM, GE Astro Space, Martin Marietta Astro Space, Lockheed Martin Telecommunications, and Lockheed Martin Commercial Space. Prior to GE Astro Space, Ms. Laurizio held various management positions in Strategic Planning, Business Development, Marketing, Sales, Systems Planning, Contracts Management, and Systems Engineering for GE American Communications, and RCA American Communications. Florette has a Bachelor of Science in Electrical Engineering from Rutgers University College of Engineering and an MBA from Rutgers University, with emphasis in Finance. For the past 8 years, Florette has worked with the Rutgers University Mechanical and Aerospace Engineering Department on the annual Meet & Greet event, and for the last 3 years, has co-chaired this event. She mentors young professionals in the Society & Satellite Professionals International organization and students. Florette also served in her local community as President of the Willows Swim Club for 20+ years and volunteered for Big Brothers Big Sisters of Mercer County, NJ.

COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Bethesda, MD
WEBSITE www.lockheedmartin.com
JOBS www.lockheedmartinjobs.com



PSE&G

Jerry Laurizio
senior Project Manager



Jerry Laurizio is the Group Leader overseeing the Gas Capital Projects and Third-Party Relocation Projects groups at Public Service Electric and Gas Company (PSE&G). Jerry has over 40 years' experience in environmental, pharmaceutical, consulting engineering and utility industries. Jerry started his career as an engineer and move into project management at a small environmental consulting firm whose focus was on Site Assessments, environmental remediation and emergency response work for NJDEP and EPA. He then went to a global pharmaceutical firm, Merck & CO., where he started in environmental permitting, moving into operations and then to site capital projects. From there Jerry went to an engineering consulting firm working on design of capital projects. Jerry then went to PSEG Fossil as a Project Manager working on a broad variety of projects at generation facilities. Jerry moved over to the utility side of PSEG where he currently leads the group managing the rebuilding and upgrades of 10 metering and regulating stations along with relocating the electric and gas utilities affected by roadway improvement projects. Jerry has both a Master of Science and Bachelor of Science degrees in Chemical Engineering from Rutgers University College of Engineering. He held both Project Management Professional (PMP) and Professional Engineering (PE) Certificates. Jerry has also served on the South Brunswick Environmental Commission for more than 20 years. He has also volunteered for Habitats for Humanity.

COMPANY AT A GLANCE

INDUSTRY Utility
HEADQUARTERS Newark, NJ
WEBSITE <https://nj.pseg.com/>
JOBS <https://jobs.pseg.com/>



Northrop Grumman

Martin Liza
Principal Systems Engineer



Martin graduated from Rutgers University in 2016 (B.S) and from Old Dominion University in 2019 (M.S). He has held various roles within the defense sector (Norfolk Naval Shipyard, Raytheon, Northrop Grumman) and national labs (Airforce Research Lab, Lawrence Livermore National Lab), with a primary focus on modeling and simulations. He is currently employed at Northrop Grumman, where he works on high-fidelity real-time sensor systems and is responsible for ensuring that simulations run in real time. Additionally, Martin is pursuing a Ph.D. at the University of Arizona, conducting research in the field of computational fluid dynamics for hypersonic flow applications such as aero-optics. His research revolves around characterizing the hypersonic environment in which a signal would propagate by taking into account chemical and turbulent effects.

COMPANY AT A GLANCE

INDUSTRY Defense
HEADQUARTERS Falls Church, VA
WEBSITE www.northropgrumman.com/
JOBS www.northropgrumman.com/careers/

Lockheed Martin



Liz Ludwigson
Systems Engineer



Liz has worked as a Systems Engineer for the majority of my career. She started off working in the Navy Nuclear Industry purchasing refueling equipment, then she moved within GE to an Aerospace division where she did systems engineering work on Commercial Communications Spacecraft. While she was working there the company changed names twice ending up as Lockheed Martin. During this time, she finished up my MBA at Rutgers. Next, she did some consulting work on SC for Orbital Space, when the LM location she was working was relocated. Then she took a project/product management job with a software startup that provided SW that allowed you to watch a DVD on your computer. Working for a small company can be very rewarding, but can

COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Bethesda, MD
WEBSITE www.lockheedmartin.com
JOBS www.lockheedmartinjobs.com/en

Firmenich



Clare Lumkong
Director of Sustainability, dsm-firmenich



Clare Lumkong has over 30 years experience building and integrating environmental and sustainability programs. She is currently the Director of Sustainability for Global Real Estate and Workplace Solutions for the recently merged dsm-firmenich company. Previously she was with Bristol Myers Squibb (BMS) as the Corporate Global Manager of Sustainability; and with Lockheed Martin Space Systems Company (LMSSC) in various roles including Environment, Health and Safety (EHS), as well as the program manager establishing the LMSSC Go Green program. Clare served on the Board of Directors for the Pharmaceutical Supply Chain Initiative (PSCI), holding positions as Treasurer and Secretary, and a member of the Rutgers University MAE Industrial Advisory Board (IAB).

COMPANY AT A GLANCE

INDUSTRY Fragrance
HEADQUARTERS Geneva, Switzerland
WEBSITE www.firmenich.com
JOBS www.firmenich.com/careers/



Pennoni

Robert Mellohusky
MEP Division Manager



Robert graduated from Rutgers University in 1983 with a BSME. He began the first 6 years of my career in the foundry and steel mill industry and also received his PE registration during that time in 1989. He then began a successful career as a consultant engineer, first serving the industrial sector and transitioning to HVAC (MEP) in 1995. He has worked for various consulting engineering firms over his career, starting as a staff engineer and moving onto project engineer, project manager, and currently a division manager. He has worked on a substantial amount of green projects and LEED infrastructure. He has been presented multiple awards for various projects by the NJ chapter of the ACEC and he is a charter member of the Rutgers Univ. School of Engineering MAE Industrial Advisory Board.

COMPANY AT A GLANCE

INDUSTRY Industrial Vehicle Manufacturing
HEADQUARTERS Portland, OR
WEBSITE <https://northamerica.daimlertruck.com/>
JOBS <https://northamerica.daimlertruck.com/careers/>



Northrop Grumman

Art Neufeld
Principal Mission Assurance Engineer



Extensive experienced in the Design, Manufacture, Test, and QA of Mechanical and Electronic Assemblies/Systems for Satellite and Launch Vehicle Applications. Demonstrated abilities in team leadership, problem solving, and problem avoidance through proactive risk identification.

COMPANY AT A GLANCE

INDUSTRY Defense
HEADQUARTERS Falls Church, VA
WEBSITE www.northropgrumman.com/
JOBS www.northropgrumman.com/careers/

Microsoft



Alan Olegario
Customer Success Account Director



Alan is based out of New Jersey, focusing on customer success in the sport industry, but has experience working with Media and Entertainment customers, as well as public sector, healthcare, and financial services. Working at Microsoft for 13 years, currently as a Customer Success Account Director, but was previously a Program Manager, Customer Success Manager, Technical Account Manager, and Premier Field Engineer. He has proven experience in launching new initiatives, creating a customer driven experience emphasizing service excellence. He's also known for effective at resolving complex customer scenarios by leveraging a broad internal and customer v-team. Alan graduated from Rutgers College of Engineering in 1999 with a concentration in Aerospace Engineering. He also has a passion for mentoring and coaching at the college and professional levels.

COMPANY AT A GLANCE

Tech INDUSTRY
Redmond, WA HEADQUARTERS
www.microsoft.com/en-us/careers.microsoft.com/v2/global/en/home.html WEBSITE
JOBS

TAPco

Thomas Pagliuco
Global Energy Management Executive



Tom Pagliuco is currently Managing Partner, TAPco Enterprises. TAPco Enterprises is a consultancy focused on advising industrial and commercial clients on how to manage their energy and sustainability programs and reduce their energy usage, cost and GHG emissions. Tom is a Strategic Industrial Energy Advisor with the EPA ENERGY STAR Industrial program, supporting several energy intensive industries. Before starting TAPco Enterprises, Tom was the Executive Director, Global Energy Engineering at AbbVie (Allergan), where he managed the Energy Management Program across a global portfolio of facilities. He also developed, implemented, and managed the Allergan, Merck and Schering-Plough global energy programs. All three energy management programs were recognized by ENERGY STAR as Partners of the Year. Tom was the recipient of a 2008 S-P Environmental Achievement Award for his advocacy for energy excellence, received the 2014 EnergySMART Energy Innovator Award and was named a 2017 Energy Manager Today 50 and 2020 Environment + Energy Leader 100. He joined AbbVie/Allergan in 2015, coming from Merck/Schering-Plough where he spent nine years. Prior to Merck/S-P he was in the Energy Services business, working for Prenova, Inc. and Enron Energy Services, responsible for energy project development. His career started in chemicals where he held several engineering and technology management roles at Rhodia (Rhone-Poulenc) Inc and Union Carbide Agricultural Products.

COMPANY AT A GLANCE

Sustainability INDUSTRY



JAKTOOL

Cristy Richards
President & CEO



Cristy Richards is the President, CEO and Integrator for JAKTOOL. She is responsible for driving the vision, traction and accountability of the organization, as well as prioritizing issues and challenges. With a focus on strategy, operations and culture, she is passionate about seeing her team grow and thrive. Before joining JAKTOOL, Cristy worked for both academic and large corporations supporting biologics and medical devices where she led multidisciplinary teams as the Product Development Engineering Manager for Osteotech, Inc. and as a Principal Sourcing Engineer for Medtronic Spine and Biologics. At JAKTOOL, she established internal Quality Assurance/Metrology Lab and matured the quality system to earn ISO certification, and implemented ERP to streamline workflow and improve efficiency. Cristy holds a B.S. and M.S. in Mechanical Engineering, both from Rutgers University, and an M.B.A. from Monmouth University. She is credited on numerous publications and patents in the medical device industry.

COMPANY AT A GLANCE

INDUSTRY Engineering, R&D, Prototyping
HEADQUARTERS Cranbury, NJ
WEBSITE www.jaktool.com

Pratt & Whitney



Chris Sacelaris

Engineering Manager, Agency Approvals Structural Engineer at Pratt & Whitney

Chris Sacelaris graduated from Rutgers MAE in 2019, since then he's worked at General Dynamics Electric Boat as a structural engineer, supporting delivered submarines, at Marotta Controls working with valves and manifolds touching on a variety of engineering roles, and now works at Pratt & Whitney focused on structural analysis for commercial jet engines.



COMPANY AT A GLANCE

INDUSTRY Aerospace
HEADQUARTERS East Hartford, CT
WEBSITE www.prattwhitney.com/en



JAKTOOL

Justin Russo
Program Manager



Justin is a dedicated Program Manager at JAKTOOL Engineering, specializing in leading high-performance teams to tackle complex challenges. His career has primarily revolved around the defense sector, where he is committed to delivering innovative solutions. He earned his Mechanical Engineering degree from Rutgers in 2017, and since then, He's developed a strong background in precision prototyping, product development, manufacturing process development and quality control. His goal is to contribute to the advancement of technology and the safety and security of our nation.

COMPANY AT A GLANCE

INDUSTRY Engineering, R&D, Prototyping
HEADQUARTERS Cranbury, NJ
WEBSITE www.jaktool.com

ASCO, L.P.



Scott Schipper

Engineering Manager, Agency Approvals

Scott Schipper is an Engineering Manager at ASCO, L.P, a unit of Emerson in Florham Park (our division HQ, lab and design center) where our main business is industrial solenoid and actuated electrically operated valves for various fluid control aspects/ installations, including hazardous (explosive) environments. He has been at "ASCO" since 1994 and Manager of our North American ASCO brand agency certifications group since 2009 (UL, CSA, FM, NSF, ATEX, IECEx all sorts of key certifications). Prior to that he was a design Engineer for Pratt and Whitney Aircraft engines right after graduating from Rutgers (BSME 1987) from 1987-1994. During his time at P&W, he obtained his MSME from RPI part time utilizing the company paid tuition program.



COMPANY AT A GLANCE

INDUSTRY Fluid Control
HEADQUARTERS Florham Park, NJ
WEBSITE www.emerson.com/en-us/automation/asco



NAVAIR

Bharg Shah
Aerospace Engineer



Bharg is a Rutgers graduate, class of 2020, with a degree in Aerospace Engineering. He also did my master's at Rutgers University. He works as a Project Lead and Flight Test Engineer for various weapons systems at NAVAIR in China Lake, California. He has also had a chance of working on computational fluid dynamic simulations and analyzing the aerodynamic performance of aerial systems. He would highly encourage the new professionals to work for the government and serve the engineering community and the country by contributing to the research and development of systems that helps us protect our troops and bring them back home safely.

COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Patuxent River, MD
WEBSITE www.navair.navy.mil/
JOBS www.jobs.navair.navy.mil/



Exponent

Asaad Shaikh
Retired Vice President



Asaad Shaikh is an Associate in the Vehicle Engineering Practice at Exponent, a multidisciplinary research and engineering consulting firm. His main work area is automotive accident reconstruction and crash analysis, conducted using electronic data retrieval, laser scanning, 3D modeling, and on-scene inspections. His work consists of carrying out complete investigations of motor vehicle collisions using physical evidence and electronic data to reconstruct how an incident occurred. Asaad was a member of the Advanced Materials and Structures Laboratories since his freshman year, starting as a research assistant before carrying out his own projects as a graduate researcher. As a member of ASML, he authored and contributed to multiple publications in the field of polymers and reinforced composite materials. Asaad graduated from Rutgers University with his B.S. in Mechanical Engineering in 2022 and subsequently completed his M.S. in Mechanical Engineering in 2023.

COMPANY AT A GLANCE

INDUSTRY Engineering & Scientific Consulting
HEADQUARTERS Menlo Park, CA
WEBSITE www.exponent.com/
JOBS www.exponent.com/careers

Marotta Controls



Joe Spaniol
Senior Mechanical Engineer



Joe Spaniol received a Bachelor of Science and a Master of Science degrees from Rutgers University in 2018 and 2019. Since graduating, Joe has spent his career progressing in multiple different roles across the US primarily developing fluid and electromechanical actuation systems for the Aerospace, Space, and Defense industries. In his current role at Marotta Controls, Joe is a Mechanical Design Engineer designing fluid control devices for new space applications.

COMPANY AT A GLANCE

INDUSTRY Defense and Space Manufacturing
HEADQUARTERS Montville, NJ
WEBSITE www.marotta.com/
JOBS www.marotta.com/careers/en

East/West Industries



Michael Vetter
Senior Director of Product Development



Michael Vetter graduated from Rutgers with a BSME and concentration in Aerospace in 2005. Since graduation He has worked at East/West Industries on Long Island, NY. East/West is a Woman owned Small Business, and the leading developer of crashworthy seat systems to the US Department of Defense as well as an industry leader for emergency oxygen systems. Over 18 years, he has risen from a Design Engineer to the Senior Director of Product Development. Past responsibilities have included detail design with extensive implicit and explicit simulations, project management, and proposal and technical writing. In his current role he oversees all of the functions of the Design and Manufacturing Engineering departments as well as coordinating all marketing and sales efforts with the Business Development team. He enjoys working in a small business environment as it has given him a broad set of experiences and am often exposed to a variety of business, legal, and financial discussions that engineers are not typically exposed to. He embraces sharing his past experiences with the next generation of engineers, and have support the RU MAE mentoring program as well as the Long Island Stem Hub Regional Industry Council.

COMPANY AT A GLANCE

INDUSTRY Aviation & Aerospace Component Manufacturing
HEADQUARTERS Ronkonkoma, NY
WEBSITE www.eastwestindustries.com/



Lockheed Martin

Nick Vigilante

Director, Integration and Testng



With over 35 years of industry experience, Mr. Nicholas Vigilante has served as a dynamic aerospace and defense executive leader, directing complex satellite design and construction programs in addition to leading and developing high performing functional organizations. His career has provided him with an expertise in areas ranging from technical design, manufacturing operations, supply chain and product assurance, to business/product development and program management. Nick holds both a B.S. and M.S.

COMPANY AT A GLANCE

INDUSTRY Aerospace, Defense
HEADQUARTERS Bethesda, MD
WEBSITE www.lockheedmartin.com
JOBS www.lockheedmartinjobs.com

Lockheed Martin



Robert Weir

System Engineering Manager



Robert Weir is a Systems Engineering Manager for the Command & Decision department at Lockheed Martin. Over the last 5 years at LM he worked as a systems and data engineer on the Aegis Weapon System. Prior to LM Robert worked for US Army ARDEC doing simulations & R&D on mobile artillery. Robert graduated with a M.S and B.S in Mechanical Engineering from Rutgers.

COMPANY AT A GLANCE

Aerospace, Defense INDUSTRY
Bethesda, MD HEADQUARTERS
www.lockheedmartin.com WEBSITE
www.lockheedmartinjobs.comen JOBS

Self Employed

John Voce

Independent Business Development Consultant



John is currently an independent business development consultant for navigation systems at Lockheed Martin Space Systems Company. He advises on strategy and expanding the business portfolio for satellite-based navigation augmentation. John has worked on projects of increased responsibility including functional director of major disciplines and capture management for major proposal activities. He is experienced in multiple areas of the satellite and launch vehicle industry - commercial and government alike. He has substantial experience in the international arena including Asia, Australia, Europe, Middle East, and Russia. He has extensive experience in domestic and international business development and capture management, bringing in over \$10 billion in orders during his career.

COMPANY AT A GLANCE

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

Firmenich



Marilyn Yasko

Seniot Process Automation Engineer



After graduating in 1992 from Rutgers College of Engineering with a degree in Chemical/BioChemical Engineering, Marilyn started at Firmenich, a privately held company that produces flavors and fragrances. Hired as an Automation Engineer, she was trained in process and project engineering; OSHA, ISA, and regulatory standards; safety reviews and troubleshooting, along with automation. This was a novel idea at the time - approaching automation from understanding the process and how it works, rather than electrical and programming side. Marilyn is involved in integrating the automation into the equipment from the beginning of its design. She is a part of working on the safety reviews and how to mitigate potential human errors. She works daily with the plant operators to troubleshoot issues in the plant. This year, the company merged to form DSM-Firmenich, which adds to its portfolio of human and animal healthcare/nutrition products. "Flavors" now includes products that enhance texture and reduce sugar. Marilyn holds a Professional Engineering License.

COMPANY AT A GLANCE

Fragrance INDUSTRY
Geneva, Switzerland HEADQUARTERS
www.firmenich.com WEBSITE
www.firmenich.com/careers/en JOBS

Basily Basily
Senior Project Administrator

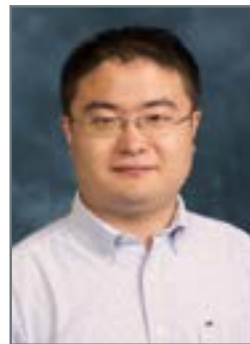


Research work includes; Eighteen Patents and 52 publications on: High Energy Rate Metal Forming. Direct Drawing of Section rods from round Bar. Determination of stress distributions by Photoelasticity, Axially compact load cells, Theory and practice of Continuous Sheet Folding Technology, Robotic Platform for non destructive testing of concrete bridge decks,

COMPANY AT A GLANCE

LOCATION Piscataway, NJ
UNIVERSITY WEBSITE www.rutgers.edu
DEPARTMENT WEBSITE mae.rutgers.edu

Xi Gu
Assistant Teaching Professor



Xi Gu is interested in engineering education, reconfigurable manufacturing systems, modeling and operations of complex engineering systems, decision-making under uncertainty. He received a Ph.D., Mechanical Engineering from the University of Michigan, 2016. An M.S.E., Industrial and Operations Engineering from the University of Michigan in 2012, and a B.S.E. in Mechanical Engineering from Zhejiang University, China in 2010.

COMPANY AT A GLANCE

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Jennifer Lynch-Branzoi
Assistant Teaching Professor



Development of innovative graphene-enhanced polymer matrix nanocomposites, fundamentals to engineering applications, including structural, bio-medical, electronics, and military. Processing-structure-property-performance relations for novel PMCs.

COMPANY AT A GLANCE

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mae.rutgers.edu DEPARTMENT WEBSITE

Doyle Knight
Distinguished Professor



Development and application of CFD methods for simulation of high speed flows, flow and flight control of high speed vehicles using energy deposition through laser and/or microwave discharge, experimental investigation of shock wave boundary layer interactions, automated optimal aerodynamic design of high speed vehicles and their subsystems including inlets and nozzles, and Guidance, Navigation and Control (GNC) of high speed vehicles.

UNIVERSITY AT A GLANCE

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www.rutgers.edu UNIVERSITY WEBSITE
businessportal.rutgers.edu DEPARTMENT WEBSITE

Aaron Mazzeo
Associate Professor



Dr. Aaron Mazzeo is an associate professor in the Department of Mechanical and Aerospace Engineering and a faculty fellow at the Honors College at Rutgers University. Prior to joining the faculty at Rutgers, he was a postdoctoral fellow at Harvard University in the Department of Chemistry and Chemical Biology, and he completed his undergraduate (S.B.) and graduate degrees (S.M. and Ph.D.) at MIT in the Department of Mechanical Engineering. The Mazzeo Research Group, or Rutgers Lab for Machines, Manufacturing, and Mechatronics, focuses on flexible and disposable electronics for mechanical and biological sensing, soft-hard robotics, cold plasma-based sanitization and treatments, and in-space manufacturing.

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DEPARTMENT WEBSITE mae.rutgers.edu

Assimina Pelegri
Professor, Undergraduate Program Director



Dr. Assimina Pelegri is a Professor and the Undergraduate Program Director of Mechanical and Aerospace Engineering at Rutgers. Her research interests include composite materials design, properties characterization, novel methodologies in material modeling, and application of anisotropic material principles in interfacial mechanics. She has developed multi scale material models for characterization of aerospace fibrous composites, as well as models for interface damage evolution in such materials. Her models have also found applications in biological fibrous materials such as brain neurons and have launched research activities in the fields of traumatic brain injury and degenerative diseases.

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DEPARTMENT WEBSITE mae.rutgers.edu

Jerry Shan
Professor, Graduate Program Director

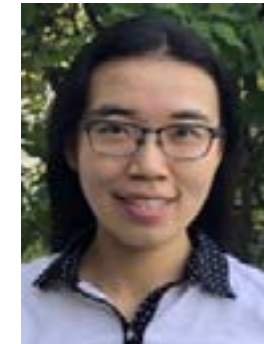


Dr. Assimina Pelegri is a Professor and the Undergraduate Program Director of Mechanical and Aerospace Engineering at Rutgers. Her research interests include composite materials design, properties characterization, novel methodologies in material modeling, and application of anisotropic material principles in interfacial mechanics. She has developed multi scale material models for characterization of aerospace fibrous composites, as well as models for interface damage evolution in such materials. Her models have also found applications in biological fibrous materials such as brain neurons and have launched research activities in the fields of traumatic brain injury and degenerative diseases.

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DEPARTMENT WEBSITE mae.rutgers.edu

Qingze Zou
Associate Professor



Dr. Yuqian Zhang is an Assistant Professor in the Electrical and Computer Engineering Department at Rutgers. His research leverages physical models in data driven computations, convex and nonconvex optimization, solving problems in computer vision, machine learning, signal processing. Dr. Zhang received his B.S. in Electrical Engineering from Xi'an Jiaotong University, and his Ph.D. in Electrical Engineering from Columbia University. His honors include the EECS Rising Stars Workshop at Stanford University, and the Young Investigator Lecture Series at California Institute of Technology.

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DEPARTMENT WEBSITE ece.rutgers.edu

Name	Employer	Position	LinkedIn
Scott Schipper	ASCO, L.P. / Emerson	Engineering Manager, Agency Approvals	https://www.linkedin.com/in/scott-schipper-1446a486/
Aaron Israel	Con Edison	Project Auditor	https://www.linkedin.com/in/aaron-israel-44449a7/
Martin Hluchy	Daimler Truck North America	Field Sales Engineer	https://www.linkedin.com/in/mahluchy/
Darren DeMedici	Delta Design and Consulting	Owner / Managing Partner	https://www.linkedin.com/in/darren-demedici-7482771/
Dimitri Dovas	Dovas Law, P.C.	Attorney	https://www.linkedin.com/in/dimitri-dovas-a852613/
Clare Lumkong	DSM-Firmenich	Sustainability Director	https://www.linkedin.com/in/clare-v-lumkong/
Christian Thorne	DSM-Firmenich	Project Engineer	https://www.linkedin.com/in/christian-thorne-b1562378/
John LaPadula	DSM-Firmenich	Sr. Project Manager, Operations	https://www.linkedin.com/in/john-lapadula-p-e-3117591/
Marilyn Yasko	DSM-Firmenich	Senior Process Automation Engineer	https://www.linkedin.com/in/michael-vetter-b7291535/
Michael Vetter	East/West Industries, Inc.	Senior Director of Product Development	https://www.linkedin.com/in/michael-vetter-b7291535/
Kip Anthony	EFE Laboratories, Inc.	President	https://www.linkedin.com/in/kip-anthony-56780417/
Matheson Lodge	EFE Labs	Production Manager	https://www.linkedin.com/in/matheson-lodge-28555b21a/
Maryam Mellatdoust	Estee Lauder Companies	Senior Vice President Quality	https://www.linkedin.com/in/maryam-mellatdoust-4940821/
Asaad Shaikh	Exponent, Inc.	Associate	https://www.linkedin.com/in/asaad-shaikh/
Sutinder Dhanjal	Fusion Academy	Teacher	https://www.linkedin.com/in/sutinder-singh-dhanjal-7515287/
Yavuz Guner	Hudson County Community College	Instructor	https://www.linkedin.com/in/yavuzbirolguner/
Cristy Richards	JAKTOOL	President / CEO	https://www.linkedin.com/in/cristy-richards-73b8b43/
Jeff Kinsberg	JAKTOOL	Chairman / COO	https://www.linkedin.com/in/jeffkinsberg/
Justin Russo	JAKTOOL	Program Manager	https://www.linkedin.com/in/justinrusso/

Name	Employer	Position	LinkedIn
Carolyn Andia	Johnson & Johnson	CAR-T Supply Chain Business Process Manager	https://www.linkedin.com/in/carolynandia/
Andrew Karlovich	Jones Lang LaSalle	Senior Project Manager	https://www.linkedin.com/in/andrew-karlovich/
Florette Laurizio	Lockheed Martin	Vice President, Sales and Marketing	https://www.linkedin.com/in/florette-laurizio-5b79176/
Liz Ludwigson	Lockheed Martin	Systems Engineer	https://www.linkedin.com/in/liz-ludwigson-8a61441/
Michael DiBuono	Lockheed Martin	System Engineering Associate Manager	https://www.linkedin.com/in/michael-dibuono-5b195558/
Nick Vigilante	Lockheed Martin Executive	Executive (Retired)	https://www.linkedin.com/in/nick-vigilante-1b08b811/
Robert Weir	Lockheed Martin	Systems Engineering Manager	https://www.linkedin.com/in/robert-weir-b4181a37/
Ken Johnson	Lockheed Martin Space	Vice President / General Manager	https://www.linkedin.com/in/kenneth-johnson-a4b337209/
Marc Bjorkman	Lockheed Martin Tech Fellow Emeritus & Owner LoveMyTech LLC	President & Founder	https://www.linkedin.com/in/marcbjorkman/
Joe Spaniol	Marotta Controls	Engineer	https://www.linkedin.com/in/josephspaniol/
Brian Lange	Marotta Controls	Manager, ESS Testing	https://www.linkedin.com/in/brian-lange-9257a1220/
Robert DeSimone	Marotta Controls	Manager, Mechanical Engineering	https://www.linkedin.com/in/robert-desimone-48b498105/
Jerry Grandov	Marotta Controls	Sr Program Manager	https://www.linkedin.com/in/jerry-grandov/
Alan Olegario	Microsoft	Customer Success Account Director	https://www.linkedin.com/in/alan-olegario/
Gregory Schneck	Multiple	SME	
Bharg Shah	NAVAIR	Aerospace Engineer	https://www.linkedin.com/in/bhargshah/
Jesse Hbler	NAVAIR	Systems Engineer	https://www.linkedin.com/in/jesse-hbler-803919134/
Alexey Titovich	Naval Surface Warfare Center Carderock	Senior Scientist	https://www.linkedin.com/in/alexey-titovich-273a4184/
Raj Patel	NAWCAD	Aerospace engineer	https://www.linkedin.com/in/rajpatel1299/

Name	Employer	Position	LinkedIn
Martin Liza	Northrop Grumman	Principal Systems Engineer	https://www.linkedin.com/in/mliza/
Art Neufeld	Northrop Grumman	Mission Assurance Engineer	https://www.linkedin.com/in/art-neufeld-pe-b937a713/
Robert Mellohusky	Pennoni	Division Manager	https://www.linkedin.com/in/bob-mellohusky-8912a2b/
Chris Sacelaris	Pratt & Whitney	Structural Engineer	https://www.linkedin.com/in/jerry-laurizio-6905928/
Jerry Laurizio	PSEG	Sr. Project Manager	https://www.linkedin.com/in/jerry-laurizio-6905928/
Siddika Pasi	RePowered Inc.	Managing Director	https://www.linkedin.com/in/siddika/
Gerald (Gerry) Feder	Retired-Kearfott Corporation	Senior Project Engineer (Retired)	N/A
Annalisa Scacchioli	Rutgers University	Associate Teaching Professor	https://www.linkedin.com/in/annalisa-scacchioli-150b3219/
Qingze Zou	Rutgers University	ME UG Director	https://www.linkedin.com/in/qingze-zou-85520119/
Xi Gu	Rutgers University	Professor	https://www.linkedin.com/in/xi-gu/
Doyle Knight	Rutgers University	Professor	https://www.linkedin.com/in/doyle-knight-a67b249b/
Basily Basily	Rutgers University	Senior Project Administrator	https://www.linkedin.com/in/basily-basily-phd-30b50b11/
Jennifer Lynch-Branzoi	Rutgers University	Asst. Teaching Professor	https://www.linkedin.com/in/jennifer-lynch-branzoi/
Mina Pelegri	Rutgers University	Professo and Chair	https://www.linkedin.com/in/mina-pelegri/
Aaron Mazzeo	Rutgers University	Associate Professor	https://www.linkedin.com/in/amazzeo/
Stephen Derechailo	Safran Aerosystems	Engineering Project Manager	https://www.linkedin.com/in/sderechailo/
John Voce	Self Employed	Business Development Consultant	
Tom Pagliuco	Self employed consultant	Managing Partner	https://www.linkedin.com/in/pagliuco/
Merrill Edmonds	Siemens Corporation	Sr. Research Scientist	https://www.linkedin.com/in/merrill-edmonds/
Eric Armour	Veeco linsturments	Principal Scientist	https://www.linkedin.com/in/Eric-Armour-06684012/



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Rutgers Mechanical and Aerospace Engineering Student Association
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Rutgers Mechanical and Aerospace Engineering
Rutgers, The State University of New Jersey
98 Brett Rd
Piscataway, NJ 08854-8058
(848) 445-2248