

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 6, 2025

INFORMATION BOOKLET



Aersys Inc.

Mandev Singh

Co-Founder



Mandev is the Co-Founder and Head of Engineering at Aersys, Inc. He is an Aerospace Engineer and a natural innovator dedicated to applying next-generation technology for global betterment. At Aersys, he and his team are dismantling the barriers to entry in industrial automation, developing core technology and an innovative business model to make robotics simple, affordable, and flexible, accessible to businesses of all sizes. Mandev also shares his deep expertise, actively advising and mentoring the next wave of startups and technical leaders on growth strategies and execution.

COMPANY AT A GLANCE

INDUSTRY	Transportation, Logistics, Supply Chain and Storage
HEADQUARTERS	Piscataway, NJ
WEBSITE	https://aersys.io/
JOBS	https://aersys.io/careers/



ASCO, L.P. (Emerson)

Scott Schipper

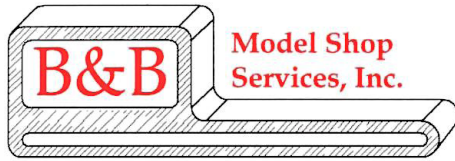
Engineering Manager, Agency Approvals



Scott Schipper is a mechanical engineer and Engineering Manager at ASCO Valve Inc, part of Emerson Electric. He oversees product safety, compliance, and certifications for North American valve systems. With over 30 years of experience, including as a Senior Design Engineer at Pratt and Whitney, he brings expertise in aerospace design, fluid control systems, and regulatory standards. A graduate of Rutgers and Rensselaer, he also serves on CSA and UL technical panels and Rutgers advisory boards, supporting engineering excellence and education.

COMPANY AT A GLANCE

INDUSTRY	Industrial Automation / Fluid Controls
HEADQUARTERS	Flemington, NJ
WEBSITE	https://www.emerson.com/en-us
JOBS	https://www.emerson.com/en-us/careers



PO Box 103 • Skillman, NJ 08558
Phone: 609-333-1972 • Fax: 609-333-1973

B&B Model Shop Services, Inc.

Barry Vaning *President*



Mr. Vaning has owned and operated B&B Model Shop since 1998, providing R&D design and fabrication support for corporate and academic partners. He supports the Rutgers Energy Storage Research Group, assisting with systems integration and device packaging. Previously, he led the Applied Research Experimental Hardware Facility at Bellcore, designing electronic and electromechanical systems. He is a past president of New Jersey Live Steamers and enjoys mechanical projects at his home in Skillman, New Jersey.

COMPANY AT A GLANCE

INDUSTRY	Mechanical & Electronic Prototyping
HEADQUARTERS	Skillman, NJ
WEBSITE	https://www.bbmodelshop.com/



Bristol Myers-Squibb

Chanaka Amarasinghe *Associate Scientific Director*



Chanaka Amarasinghe is an Associate Scientific Director at Bristol Myers Squibb, a role he has held since 2013. He is a product development engineer and project leader with experience creating and launching medical devices through cross functional teams. Previously, he worked at Johnson and Johnson, launching products for the Womens Health and Urology business. His career includes roles at Becton Dickinson, EP MedSystems, Datascope, Zynergy CardioVascular, and AngioDynamics. He holds an MBA from Rutgers University and a BS in Aeronautical Engineering from Rensselaer Polytechnic Institute.

COMPANY AT A GLANCE

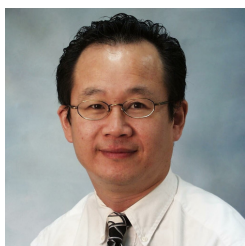
INDUSTRY	Pharmaceuticals
HEADQUARTERS	Lawrence Township, NJ
WEBSITE	https://www.bms.com/
JOBS	https://careers.bms.com/



Colgate-Palmolive Company

Zhigang Hao

Director of Technology



Zhigang Hao is a PhD with more than 20 year consumer industry experience with solid knowledge on chemical interaction within and around consumer products and quick executive power on product crisis and troubleshooting, specifically with broad analytical instrumentations like optical instruments, GC-& LC-MS and NMR. Strong background on structure-activity relationship (SAR) from pharmacological training.

COMPANY AT A GLANCE

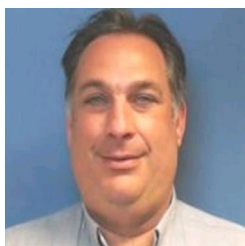
INDUSTRY	Consumer Products
HEADQUARTERS	New York, NY
WEBSITE	www.colgatepalmolive.com/en-us
JOBS	https://jobs.colgate.com/content/How-We-Hire/



Con Edison

Aaron Israel

Project Auditor



Since 1999, Aaron Israel has worked with after treatment products and engine emissions testing for diesel and gasoline engines. He began his career at BASF developing and testing catalyst products. In 2007, he joined Caterpillar dealer Foley Incorporated, supporting sales, engineering, and regulatory compliance for diesel emissions retrofits. In 2013, he became Business Development Engineer at ESW America, expanding its engine and vehicle emissions testing business. He holds a BS in Mechanical Engineering from Rutgers University and an MBA from Baruch College.

COMPANY AT A GLANCE

INDUSTRY	Energy / Utilities
HEADQUARTERS	New York, NY
WEBSITE	https://www.coned.com/en
JOBS	https://www.coned.com/en/about-us/careers

Michael Fabiano
Consultant

Consultant



We are an engineering consulting firm built to solve technical challenges. We partner with organizations from NASA to Fortune 500 manufacturers to deliver creative, reliable solutions. Our work often involves new uses for existing technologies, from adapting semiconductor equipment for biological testing to designing LED systems for the Europa Clipper mission. We also improve industrial operations, analyzing bottlenecks and boosting efficiency. We combine scientific ingenuity with practical results to keep advanced technology and critical operations moving forward.

COMPANY AT A GLANCE

INDUSTRY	Engineering Consulting / Packaging
HEADQUARTERS	Lebanon, NJ

DAIMLER TRUCK
North America

Daimler Truck North America

Martin Hluchy
Field Sales Engineer



Martin graduated from Rutgers University in 2021 with a degree in Mechanical Engineering and a concentration in Energy Systems. He currently works in the semiconductor industry and is a results driven, adaptable person who performs well under pressure in both team and independent settings. His interests in AR and VR, autonomous drones, and the energy and automotive industries led him to work on drone projects and the Rutgers Solar Car Team. Through these experiences, he developed skills in product design, CAD, simulation, programming, prototyping, and manufacturing.

COMPANY AT A GLANCE

INDUSTRY	Automotive / Semiconductor
HEADQUARTERS	Portland, OR
WEBSITE	https://northamerica.daimlertruck.com/
JOBS	https://northamerica.daimlertruck.com/careers

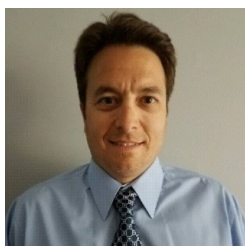


DELTA DESIGN AND CONSULTING

Delta Design and Consulting

Darren DeMedici

Managing Partner



Darren DeMedici is a results focused mechanical engineer with over 25 years of experience in design, product and process development, and production manufacturing. His background includes engineering consulting, relationship management, strategy planning, and design optimization. He is a detail oriented lead engineer skilled in managing complex projects for companies from startups to Fortune 100 firms. Darren is an assertive leader and creative problem solver with a strong record of delivering innovative and efficient engineering solutions.

COMPANY AT A GLANCE

INDUSTRY	Mechanical Engineering / Consulting
HEADQUARTERS	Middletown, NJ
WEBSITE	https://www.2dconsults.com/



Dovas Law, P.C.

Dimitri Dovas

Attorney



Dimitri Dovas is the founding President of Dovas Law, P.C. in Philadelphia, a firm he established in 2006 that specializes in intellectual-property law for both domestic and international clients. He brings over two decades of experience guiding corporations, law firms and individuals through complex protection and enforcement of innovations, and was admitted to practice in Pennsylvania in 2001.

COMPANY AT A GLANCE

INDUSTRY	Legal / Intellectual Property
HEADQUARTERS	Philadelphia, PA
WEBSITE	www.dovaslaw.com/



DSM-Firmenich

Marilyn Yasko

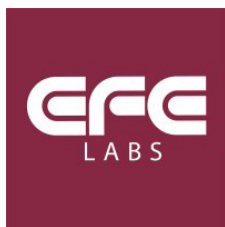
Senior Process Automation Engineer



Marilyn graduated from Rutgers College of Engineering in 1992 with a degree in Chemical/Biochemical Engineering and began her career at Firmenich as an Automation Engineer. She specializes in integrating automation into equipment design, process engineering, safety reviews, and troubleshooting with plant operators. Her approach emphasizes understanding the process rather than just electrical and programming aspects. She continues her work at DSM-Firmenich, which now includes human and animal healthcare products. Marilyn holds a Professional Engineering license.

COMPANY AT A GLANCE

INDUSTRY	Chemical / Biochemical
HEADQUARTERS	Plainsboro NJ
WEBSITE	www.firmenich.com
JOBS	www.firmenich.com/careers/



EFE Laboratories, Inc.

Kip Anthony

President



Kip Anthony has broad experience in power turbine, food processing, automotive, and aerospace industries, holding managerial, technical, and executive roles at companies like Schrader Bridgeport, BE Aerospace, Cooper Industries, and O.S. Kelly. He is known for manufacturing excellence, risk assessment, and market analysis. Kip serves on the Ben Franklin Technology Partners advisory committee, DVIRC board, and FabNet Partnership, and is a two-time Philadelphia 100 Award recipient promoting manufacturing through media.

COMPANY AT A GLANCE

INDUSTRY	Manufacturing / Electronics
HEADQUARTERS	Perkasie, PA
WEBSITE	https://efelabs.com/
JOBS	https://efelabs.com/about/careers/



Encore Fire Protection

Tom Donohue
Project Manager



Tom Donohue is a Project Manager at Surf Fire, Security & Safety, previously working as a CAD Drafter. He has engineering experience at MERTS, designing conveyors for concrete plants, and at Spectrecraft Dynamics, creating custom parts for experimental aircraft. At Rutgers, he was Powertrain Junior Lead for Formula Racing and Field Manager at the Center for Advanced Energy Systems. He holds a Mechanical Engineering degree from Rutgers and an Associate's in Engineering Science from Bergen Community College.

COMPANY AT A GLANCE

INDUSTRY	Construction / Fire Protection
HEADQUARTERS	Wall Township, NJ
WEBSITE	https://encorefireprotection.com/affiliated-brand/surf-fire-safety/



Engineering Systems, Inc.

Asaad Shaikh
Senior Consultant



Asaad Shaikh is a Senior Consultant at Engineering Systems, Inc in Lincoln Park, NJ, specializing in mechanical engineering, accident investigation, and reconstruction for recreational, passenger, and commercial vehicles. He has experience with Event Data Recorder analysis, 3D laser scanning, and drone mapping. He holds a BS and MS in Mechanical Engineering from Rutgers, where he conducted research in the Advanced Structures and Materials Laboratories and was a member of the Formula Racing team.

COMPANY AT A GLANCE

INDUSTRY	Engineering Consulting / Forensics
HEADQUARTERS	Aurora, IL
WEBSITE	https://www.engsys.com/
JOBS	https://www.engsys.com/work/

Jerry Grandov

Senior Principal Mechanical Engineer



Jerry Grandov is a Sr Principal Mechanical Engineer at General Dynamics Mission Systems with a diverse career including freelance consulting in motorsport suspension and aircraft landing gear. He has held roles as Sr Program Manager at Marotta Controls, Sr Adv Engineer at General Dynamics, and Physical Designer at Nokia/Alcatel-Lucent, earning recognition as a Distinguished Member of Technical Staff at Bell Labs. He also worked at Crest Audio. He holds a bachelor's from Rutgers and is a longtime SAE volunteer judge.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Fairfax, VA
WEBSITE	https://gdmissionsystems.com/
JOBS	https://gdmissionsystems.com/careers



GILEAD

Gilead Sciences, Inc

Sun Park

Senior Director, Project Management



Sun Park is Senior Director of Project Management at Gilead Sciences, previously Sr. Director of the PMO at Immunomedics. He has over 18 years of experience leading complex programs and was Program Director at Siemens Healthineers, managing the Next Generation Immunoassay Analyzer program to commercial launch and 510(k) clearance. His career includes roles at AMETEK EDAX and Ametek Aerospace in engineering and product management, with expertise in new product development, Six Sigma, and Lean methodologies.

COMPANY AT A GLANCE

INDUSTRY	Pharmaceuticals
HEADQUARTERS	Foster City, CA
WEBSITE	https://www.gilead.com/
JOBS	https://www.gilead.com/careers



Givaudan

Eric Albrethsen

IT Manufacturing Solution Designer



Albrethsen is a business and technical analyst/manager with a proven track record managing and implementing continuous improvement projects in medical device, chemical, food & high tech industries. He has an operational focus on supply chain, quote to cash, and procure to pay with global experience that leveraged business analytics, metrics, quality tools and software systems to increase profitability while reducing working capital/cycle time.

COMPANY AT A GLANCE

INDUSTRY	Manufacturing / Supply Chain
HEADQUARTERS	Vernier, Geneva
WEBSITE	https://givaudan.com/
JOBS	https://www.givaudan.com/careers



HCCC

Yavuz Guner

Instructor



Yavuz Guner is an Instructor in Computer Science and Cybersecurity at Hudson County Community College, joining full-time in 2022. He teaches Cybersecurity, Ethical Hacking, Computer Forensics, and Java Programming. Previously, he was adjunct faculty at HCCC and Saint Peter's University. He holds certifications including CEH, CompTIA Security+, and IBM Blockchain Foundation, an MS in Cybersecurity, a BS in Business Administration, and is a PhD candidate in Data Science at Saint Peter's University.

COMPANY AT A GLANCE

INDUSTRY	Education / Cybersecurity
HEADQUARTERS	Jersey City, NJ
WEBSITE	https://www.hccc.edu/
JOBS	https://www.hccc.edu/administration/hr/careers/in-

Cristy Richards

President and CEO



Cristy Richards is President and CEO of JAKTOOL, an engineering, product development, and prototyping company. She joined in 2014 with over 15 years of experience in engineering, quality, and procurement, previously holding roles at Medtronic Spine and Biologics, Osteotech, Blackstone Medical, and Temple University. She serves as Executive Chair of the Rutgers MAE Industry Advisory Board and holds an MS in Mechanical Engineering and an MBA from Rutgers. She is named on multiple medical device patents.

COMPANY AT A GLANCE

INDUSTRY	Engineering, Product Development, & Prototyping
HEADQUARTERS	Cranbury, NJ
WEBSITE	https://www.jaktool.com/
JOBS	https://www.jaktool.com/about-us/careers/

David Mazer

President and CEO



David Mazer is President and CEO of Jay-Hill Repairs and a Guest Lecturer at Rutgers MAE. He led a full operational turnaround at Jay-Hill, achieving 2.4x revenue growth and 15x profit expansion. Previously, he was Director of Pricing Strategy at American Express, generating \$430M in incremental charge volume, and began his engineering career as a NASCAR Race Engineer and US Air Force Electro-Optics Analyst. At Rutgers, he was Chief Engineer for Formula Racing. He holds a BSc in Mechanical and Aerospace Engineering from Rutgers and an MSc in Engineering and Management from Cranfield.

COMPANY AT A GLANCE

INDUSTRY	Commercial Food Service & Equipment Repair
HEADQUARTERS	Fairfield, NJ
WEBSITE	https://jayhillrepairs.com/
JOBS	https://jayhillrepairs.com/employment/

Martin Liza

Software Aerospace Engineer



He served seven years as Lead Systems Engineer at NAVAIR, focusing on avionics and enhancing aircraft mission capabilities, managing multi-million-dollar programs through full product lifecycles from proposals to production. Before becoming full-time faculty, he lectured in Rutgers MAE, teaching courses aligned with his NAVAIR work and providing students real-world insights and hands-on experience.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Laurel, MD
WEBSITE	https://www.jhuapl.edu/
JOBS	https://www.jhuapl.edu/careers



Lockheed Martin

Florette Laurizio

International Business Development



Florette Laurizio is Senior Manager of Global Commercial Business Development at Lockheed Martin Commercial Communications Space, overseeing customer relationships, sales, marketing, and operations. She has over 40 years of experience in commercial satellite communications with GE Astro Space, Martin Marietta, Lockheed Martin, and RCA. She holds a BS in Electrical Engineering and an MBA from Rutgers. She mentors students and professionals, co-chairs Rutgers MAE Meet & Greet, and has volunteered extensively in her community.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Bethesda, MD
WEBSITE	https://www.lockheedmartin.com/
JOBS	https://www.lockheedmartin.com/en-us/careers/in-



Lockheed Martin

Liz Ludwigson
Systems Engineer



Liz has spent most of her career as a Systems Engineer, starting in the Navy Nuclear Industry purchasing refueling equipment. She then moved to GE Aerospace, working on Commercial Communications Spacecraft, which became Lockheed Martin. During this time, she earned an MBA from Rutgers. She later consulted on spacecraft for Orbital Space and worked in project and product management at a software startup providing DVD playback software for computers.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense / Software
HEADQUARTERS	Bethesda, MD
WEBSITE	https://www.lockheedmartin.com/en-us/index.html
JOB	https://www.lockheedmartin.com/en-us/careers/in-

LOVEMYTECH LLC

LoveMyTech LLC

Marc Bjorkman
President & Founder



35+ years of experience with Lockheed Martin in high-level individual contributor and management positions ranging from satellite communication (satcom) systems, to Technical Fellow, to Senior Manager. Experience in small-to-large scale commercial, civil, and government satcom systems & programs. World-class expert in RF & microwave payloads and systems engineering processes & practices. Decades of engineering support to marketing & business development for capture of new business.

COMPANY AT A GLANCE

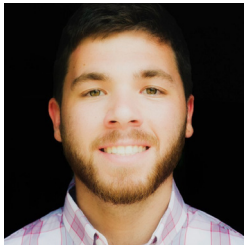
INDUSTRY	Aerospace / Technology Consulting
HEADQUARTERS	Bucks County, PA
WEBSITE	https://lovemytech.com/



Marotta Controls

Bradley Miller

Development Engineer Lead, Naval Systems



Bradley Miller is an Engineering Lead at Marotta Controls. He has progressed within the company through roles as a Production Engineer I and Production Engineer II. Prior to joining Marotta, he was a Solar Engineering Intern at QE Solar. During his undergraduate studies, he served as a Research Assistant at the Aresty Research Center at Rutgers University. Bradley holds a Bachelor of Science in Aerospace Engineering from Rutgers University.

COMPANY AT A GLANCE

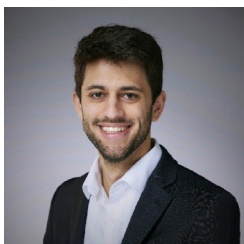
INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	https://marotta.com/
JOBS	https://marotta.com/careers/



Marotta Controls

Christopher Ennis

Continuous Improvement Team Lead



Christopher Ennis is Production Engineering Team Lead for Continuous Improvement at Marotta Controls, joining in 2021 and advancing from Production Engineer I and II. A 2021 Rutgers graduate, he led Aerodynamics & Composites for the Rutgers Solar Car Team for nearly four years. He also interned as a Field Technician at HMI and a Project Management Intern at New Line Structures. He holds a BS in Aerospace Engineering from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	https://marotta.com/
JOBS	https://marotta.com/careers/



Marotta Controls

Rob DeSimone

Senior Manager, Mechanical Engineering



Rob DeSimone is an Engineering Manager at Marotta Controls, leading the CoRe team for project, development, and production engineering on new and legacy valves for commercial space customers. He joined Marotta as an intern in 2016, working on projects including Falcon 9, Dream Chaser, SLS, and New Glenn. He holds a BS and MS from Rutgers and is pursuing an MBA. At Rutgers, he was Controls Lead for the 2016 Formula Racing car.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	https://marotta.com/
JOBS	https://marotta.com/careers/



Marotta Controls

Kevin Jakubowski

Manager



Kevin Jakubowski is an Engineer at Marotta Controls, where he has worked since 2018. He previously was a Test Engineer at Calspan Corporation and Assistant Operations Manager at ECM Trailer Repair. At Rutgers, he was Suspension Subteam Lead for Formula Racing, managing vehicle dynamics, kinematics, and suspension design using SolidWorks and MATLAB, manufacturing parts with CNC machining, and performing simulation and data analysis with MoTeC i2 and Optimum Suite.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	www.marotta.com/
JOBS	www.marotta.com/careers/



Marotta Controls

Mikey Albacete

Engineer II, Development



Michael Albacete is a Space Development Engineer II at Marotta Controls, joining in 2021 and advancing through roles in space testing, production, and project engineering. At Rutgers, he contributed nearly four years to Formula Racing as Junior Suspension Design Lead and Controls and Ergonomics Design Lead, designing and manufacturing the cockpit and shifting systems. He also held internships at Jaguar Land Rover North America and Loreal. He earned a degree in Mechanical Engineering from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	https://marotta.com/
JOBS	https://marotta.com/careers/



Marotta Controls

Szymon Frackowski

Development Engineer, Space Systems



My name is Szymon Frackowski and I am a Development Engineer in the Space Business Unit of Marotta Controls. I specialize in creating high-pressure test setups and testing valves in different stages of development for aerospace applications. In addition, I utilize my skills in programming with Python to improve testing efficiency. I graduated Rutgers University with a Bachelor's Degree in Mechanical Engineering (with Energy Concentration) in 2024. During my studies at Rutgers, I was heavily involved with Rutgers Formula Racing, where I was the Powertrain Lead, then the Project Manager.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Montville, NJ
WEBSITE	www.marotta.com/
JOBS	www.marotta.com/careers/



NAVAIR

Shane Willey
Mechanical Engineer



D. Shane Willey is a mechanical engineer at Naval Air Warfare Center Aircraft Division (NAWCAD) Lakehurst with a foundation built at Rutgers University. In his work, Shane brings analytical rigor and a hands-on approach to solving complex engineering challenges, leveraging his academic background and practical design experience to contribute to high-stakes aerospace systems.

COMPANY AT A GLANCE

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



NAVAIR

Kristina Jones
Mechanical Engineer



Kristina Jones is a Mechanical Engineer and Project Manager at Naval Air Systems Command (NAVAIR) with expertise in process optimization, system standardization, and cross-functional leadership. She is experienced in managing technical projects, developing compliance-driven engineering processes, and coordinating with stakeholders to improve efficiency. Kristina holds a Master of Public Administration from Aurora University and a Bachelor of Science in Mechanical Engineering from Drexel University, where she was a member of the Society of Women Engineers and the American Society of Mechanical Engineers.

COMPANY AT A GLANCE

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



NAVAIR

Rasheem Clark

Mechanical Engineer



Rasheem Clark is a Mechanical Engineer at Naval Air Systems Command with expertise in design, manufacturing, energy, sustainability, thermal systems, and systems engineering. His experience includes roles at SPS Technologies, USDA ARS, and Partner Engineering and Science. He graduated as Valedictorian from Drexel University in 2021, serving as Undergraduate Student Speaker, and holds a BS in Mechanical Engineering with minors in Engineering Leadership and Music, plus an MS in Engineering Management.

COMPANY AT A GLANCE

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



Northrop Grumman

Paul Del Vechio

Systems Engineer



Paul Del Vechio is a Systems Engineer at Northrop Grumman with expertise in mechanical engineering, manufacturing, energy systems, aerospace, and materials. He specializes in mechanical and thermal design, systems architecture, and battery thermal management, using MBSE for large-scale system modeling. Previously, he interned at Space Dynamics Laboratory on satellite thermal control and small sat design. At Rutgers, he was Project Manager and Lead Engineer for the Formula Racing team. He holds a B.E. in Mechanical Engineering from Rutgers.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Falls Church, VA
WEBSITE	https://www.northropgrumman.com/
JOBS	https://www.northropgrumman.com/careers



Pennoni

Bob Mellohusky

Division Manager



Mr. Mellohusky is a mechanical engineer specializing in HVAC and utility system design across commercial, industrial, healthcare, pharmaceutical, educational, criminal justice, and government facilities. He has managed design projects through all engineering phases, including green technologies for LEED and non-LEED buildings. He is knowledgeable in HVAC codes and standards and has extensive experience in engineering, construction supervision, and field engineering.

COMPANY AT A GLANCE

INDUSTRY	MEP Engineering / Consulting
HEADQUARTERS	Philadelphia, PA
WEBSITE	https://www.pennoni.com/
JOBS	https://www.pennoni.com/careers/

U.S. ARMY PICATINNY ARSENAL

Joint Center of Excellence for Guns and Ammunition

Picatinny Arsenal

Max Tenorio

Materials Engineer



Max Tenorio received a Bachelor of Science degree in Mechanical and Aerospace Engineering from Rutgers University and is still working on receiving his Ph.D from there as well. He is currently working at Picatinny Arsenal in the Materials Analysis branch as a Materials Engineer. Despite having that job title he is still applying his Mechanical Engineering background to develop ways to test the multitude of materials that go into many of the equipment and materiel used by our armed forces.

COMPANY AT A GLANCE

INDUSTRY	Defense / Materials Science
HEADQUARTERS	Wharton, NJ
WEBSITE	https://home.army.mil/picatinny/



Pratt & Whitney

A United Technologies Company

Pratt & Whitney

Chris Sacelaris

Structures Engineer



Chris Sacelaris graduated from Rutgers Mechanical and Aerospace Engineering in 2019. He began his career as a Structural Engineer at General Dynamics Electric Boat, then worked at Marotta Controls on valves, manifolds, and various engineering roles. He currently works at Pratt and Whitney focusing on structural analysis for commercial jet engines. At Rutgers, he contributed to the 2019 Senior Design project developing the BESTO bio-inspired flapping wing wind energy harvester.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	East Hartford, CT
WEBSITE	https://www.prattwhitney.com/en
JOBS	https://careers.rtx.com/global/en/pratt-whitney-



RexChain

Siddika Pasi

CEO and Co-Founder



Experienced energy professional specializing in renewable PV energy, storage, and generation technologies. Developed and designed utility scale solar plants with energy storage for major US firms. Skilled in EPC, BOS design, energy modeling, and PV system integration. Background includes DOE and NJDEP energy programs, consulting engineering, and roles at First Solar. Licensed Professional Engineer in NJ, Certified Energy Manager, DOE specialist, and holder of two BOS design patents. Presented on blockchain and decarbonization at ACEEE.

COMPANY AT A GLANCE

INDUSTRY	Renewable Energy / Technology
HEADQUARTERS	Piscataway, NJ
WEBSITE	https://rex-chain.com/
JOBS	https://www.linkedin.com/company/rex-chain/jobs/

George Wahlgren

Director, NPD Engineering



Born builder and inventive engineer with a passion for creating and refining new products. Known for hands-on problem solving and attention to every detail. Began exploring engineering by disassembling toys and later gained design experience at a manufacturing plant. At Rutgers, earned an engineering degree and joined the Formula SAE team, designing and building a formula style race car while learning the power of teamwork and innovation.

COMPANY AT A GLANCE

INDUSTRY	Consumer Goods / Manufacturing
HEADQUARTERS	Bristol, PA
WEBSITE	https://www.robern.com/
JOBS	https://www.robern.com/our-company/careers

Alp Tekalp

Technical Sales Engineer



Alp Tekalp is a Technical Sales Engineer at Rotor Clip and President of MIM, The Society of Turkish American Architects, Engineers, and Scientists, promoting collaboration among Turkish American professionals. Previously, he was a Mechanical Design Engineer at OEM Controls and held roles at Ecochlor and Accurate Lock and Hardware. He earned his mechanical engineering degree from Quinnipiac University and holds SOLIDWORKS certifications.

COMPANY AT A GLANCE

INDUSTRY	Manufacturing / Automotive Components
HEADQUARTERS	Somerset, NJ
WEBSITE	https://www.rotorclip.com/
JOBS	https://www.rotorclip.com/careers/

Doyle Knight
Professor



Specializes in CFD development and application for high speed flow simulation, flow and flight control using laser or microwave energy deposition, and experimental studies of shock wave boundary layer interactions. Experienced in automated optimal aerodynamic design of high speed vehicles, including inlets and nozzles, as well as guidance, navigation, and control of high speed systems.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

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

INDUSTRY	Education / Mechanical Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Aaron Mazzeo
Associate Professor



Dr. Aaron Mazzeo is an associate professor in Mechanical and Aerospace Engineering and a faculty fellow at the Rutgers Honors College. He earned his S.B., S.M., and Ph.D. in Mechanical Engineering from MIT and was a postdoctoral fellow at Harvard. His research group, the Rutgers Lab for Machines, Manufacturing, and Mechatronics, focuses on flexible electronics, soft-hard robotics, cold plasma treatments, and in-space manufacturing.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Assimina Pelegri
Professor and Chair



Dr. Assimina Pelegri is a Professor and Undergraduate Program Director of Mechanical and Aerospace Engineering at Rutgers. Her research focuses on composite materials design, multiscale modeling, and interfacial mechanics. She has developed models for aerospace fibrous composites and interface damage, with applications extending to biological materials such as brain neurons, contributing to studies on traumatic brain injury and degenerative diseases.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

George Moutsanidis
Assistant Professor



Dr. George Moutsanidis is an Assistant Professor at Rutgers University specializing in computational mechanics and structural engineering. He previously taught at Stony Brook University and held research positions at Brown University and Los Alamos National Laboratory. He earned his Ph.D. in Computational Mechanics from UC San Diego and his M.S. in Structural Engineering from the University of Texas at Austin.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Jonathan Singer
Associate Professor



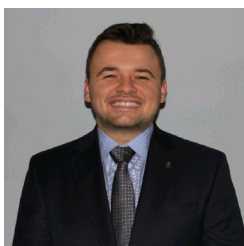
Dr. Jonathan Singer is an Associate Professor in Mechanical and Aerospace Engineering at Rutgers, holding the Mary K. Raisler Teaching Chair. His research focuses on design and control of multiscale lithographic strategies for phononic, photonic, mechanical, and aerospace composite structures. He earned a Ph.D. from MIT and BSE MS from the University of Pennsylvania, and was a Postdoctoral Associate at Yale. He also spent seven years as Lead Systems Engineer at NAVAIR managing multi-million-dollar avionics programs and previously lectured at Rutgers.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Jesse Hubler

Assistant Professor / Industry Liaison



Jesse Hubler spent seven years as Lead Systems Engineer at NAVAIR, focusing on avionics and aircraft mission capabilities, managing multi-million-dollar programs through full lifecycles from proposals to production. Before joining Rutgers as full-time faculty, he lectured in Mechanical and Aerospace Engineering, teaching courses aligned with his NAVAIR work and providing students real-world insights and hands-on experience.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Clare Lumkong

Self-Employed / Retired



Self-Employed

Clare Lumkong is a leader in sustainability and ESH management, recently serving as Director of Sustainability for Group Real Estate and Workplace at DSM-Firmenich, integrating sustainability into business strategy. She previously held roles at Bristol Myers Squibb and Lockheed Martin Space Systems, influencing corporate physical footprints. Known for continuous improvement and systems thinking, Clare also contributed to the Board of Directors for the Pharmaceutical Supply Chain Initiative (PSCI).

COMPANY AT A GLANCE

INDUSTRY	Aerospace / Biopharma
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Siemens

Merrill Edmonds

Senior Key Expert



Merrill Edmonds is a Senior Key Expert in the Future of Automation group at Siemens Foundational Technologies in Princeton, NJ. His work focuses on IT-OT convergence for manufacturing automation and robotics, leading projects in food and beverage, aerospace, and automotive industries, and guiding pre-development teams for automation and industrial AI products. Previously a software engineer in the same group, he holds a BSc in Mechanical Engineering from Duke University and a PhD from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Automation
HEADQUARTERS	Princeton, NJ
WEBSITE	https://www.siemens.com/global/en.html
JOBS	https://www.siemens.com/global/en/company/jobs



SMART S&T Caucus (DoD) & NIST

Robert Mazzuca

Executive Director / Senior Engineering Manager



Robert is Deputy Director for the SMART Congressional Initiative and Principal Scientist at the AR Research Institute, a DoD think tank. He is an aerospace engineer with over 25 years as a DoD contractor, contributing at RCA, GE Aerospace, Martin Marietta, and Lockheed Martin. He provides executive leadership in spacecraft systems integration, weapons systems, emerging technology development, special project management, and process improvement, serving multiple US government agencies.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense / Government
HEADQUARTERS	Alexandria, VA
WEBSITE	https://smart-states.org/



The Drone Racing League

Beda Pormentilla

Senior Mechanical Engineer



Beda Angelo Pormentilla is a Senior Mechanical Engineer at The Drone Racing League with 18 years of experience in aerospace, robotics, and consumer hardware. At DRL, he designs high-performance drones using CFD and FEA and led a Guinness World Record project. Previously, he held senior engineering roles at Assembly OSM, Chefman, Peloton, LIXIL, and Wabtec, and began his career at NAVAIR analyzing the Super Hornet. He holds a BS in Mechanical and Aerospace Engineering from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Mechanical & Aerospace Engineering
HEADQUARTERS	Manhattan, NY
WEBSITE	https://www.drl.io/
JOBS	https://www.drl.io/jobs



US Army

Andrew Lansey

Mechanical Engineer



Andrew Lansey is a Mechanical Engineer with the US Army, with 11 years of defense industry experience across mechanical engineering and program management. He previously worked as a Mechanical Engineer for the US Navy at NAVFAC EXWC and as Lead Design Engineer for LoudBicycle, designing an aerodynamic horn housing. His graduate ME project focused on a sealant delivery system for the ANDERS bridge deck repair robot. He holds a Master of Engineering and a BS from Rutgers University.

COMPANY AT A GLANCE

INDUSTRY	Defense / Mechanical Engineering
HEADQUARTERS	Arlington, Virginia
WEBSITE	https://www.army.mil/
JOBS	https://www.goarmy.com/



Valcor Engineering Corp.

Anthony Scalia

Lead Test Engineer



Anthony P Scalia is Lead Test Engineer at Valcor Engineering, specializing in aerospace valve testing and integration for commercial space launch customers. He advanced from Development Engineer and Test Engineering Intern roles. At Rutgers, he served as Mechanical Team Lead, Chief Engineer, and Project Manager for the Solar Car Team and worked at the Makerspace. He holds a BS in Mechanical Engineering and is completing his MS at Rutgers University.

COMPANY AT A GLANCE

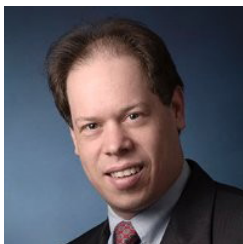
INDUSTRY	Aerospace & Defense
HEADQUARTERS	Springfield, NJ
WEBSITE	https://www.valcor.com/
JOBS	https://www.valcor.com/employment/



Veeco Instruments

Eric Armour

Distinguished Research Scientist



Eric Armour is Senior Director of Advanced Process Technology at Veeco Instruments, focusing on next-generation GaN reactor platforms. He began at Emcore in 1994, developing commercial tandem and triple junction AsP solar cells, later leading research on electronic materials and establishing an epitaxial foundry for LEDs, VCSELs, HBTs, and pHEMT wafers. Appointed Director of Materials and Process Development in 2002, he led reactor technology development. He holds a BS, MS, and PhD in Electrical Engineering and has over 100 publications and 8 US patents.

COMPANY AT A GLANCE

INDUSTRY	Semiconductors
HEADQUARTERS	Plainview, NY
WEBSITE	https://www.veeco.com/
JOBS	https://careers.veeco.com/



Veeco Instruments

Sami Obeid

Mechanical Engineer



Sami Obeid is a Mechanical Engineer II at Veeco, designing MOCVD systems and leading new product development in semiconductor equipment. His expertise includes additive manufacturing, R&D, product design, and UAV hardware and software. A 2021 Rutgers Mechanical Engineering graduate with an Energy Systems focus, he served as Suspension, Brakes, and Driver Controls Co-Lead for the Solar Car Team and as a Robotics Engineer for the Autonomous Assembling Drones Senior Design Project.

COMPANY AT A GLANCE

INDUSTRY	Semiconductors / Manufacturing
HEADQUARTERS	Plainview, NY
WEBSITE	https://www.veeco.com/
JOBS	https://careers.veeco.com/



Weeks Marine

Alex Stone

Field Engineer



Alex Stone is a Field Engineer at Weeks Marine, currently working on Hudson River Ground Stabilization for Project Gateway. He joined Weeks Marine in 2022, progressing through internships in Equipment and Field Engineering, supporting crane modifications, pier demolition, and yard operations. At Rutgers, he served as Program Coordinator for the School of Engineering, Dean's Office Assistant, and Undergraduate Staff Engineer at the Center for Advanced Energy Systems.

COMPANY AT A GLANCE

INDUSTRY	Marine Construction / Engineering
HEADQUARTERS	Cranford, NJ
WEBSITE	https://www.weeksmarine.com/
JOBS	https://kiewitcareers.kiewit.com/Weeks

Jeff Kinsberg

Visionary and Founder



Jeff is the founder and visionary behind JAKTOOL, leading a team dedicated to accelerating Med-Tech and next-generation military solutions. Founded in a garage in 1994, JAKTOOL has grown under his leadership into a precision-driven development partner serving innovative companies and the U.S. Department of Defense. A Rutgers BSME graduate, Jeff led Rutgers Formula Racing and worked on NSF-backed research before pursuing JAKTOOL full-time. He serves on the MAE Industry Advisory Board executive board and continues to mentor and sponsor students across the Rutgers and regional STEM community.

COMPANY AT A GLANCE

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

Joseph (Yossi) Cohen

Assistant Professor



Cohen earned his Bachelor's, Master's, and Ph.D. in Mechanical Engineering from the University of Michigan. His work focuses on industrial AI for fault diagnosis and advancing prognostics for complex systems. His research interests include human-centered and responsible AI, explainable AI, and sustainable manufacturing. As an Eric and Wendy Schmidt AI in Science Postdoctoral Fellow, he explored the intersection of explainable AI and uncertainty quantification. He now leads the TRUST-ME Lab, developing human-centered, responsible AI methods to improve decision-making in industry.

COMPANY AT A GLANCE

INDUSTRY	Education / Mechanical & Aerospace Engineering
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Thomas Pagliuco

Retired, Part Time Consultant

Retired



Tom Pagliuco is Managing Partner of TAPco Enterprises, a consultancy helping industrial and commercial clients reduce energy use, costs, and greenhouse gas emissions. He is a Strategic Industrial Energy Advisor with the EPA ENERGY STAR program. Previously, he led global energy programs at AbbVie, Allergan, Merck, and Schering-Plough, earning multiple ENERGY STAR and industry awards. Earlier, he worked at Prenova, Enron Energy Services, Rhodia, and Union Carbide in energy and engineering roles.

COMPANY AT A GLANCE

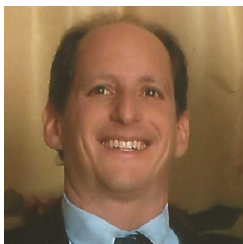
INDUSTRY	Energy Consulting / Pharmaceuticals
HEADQUARTERS	East Brunswick, NJ

NORTHROP GRUMMAN

Retired

Art Neufeld

Retired



Extensive experience 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	Aerospace & Defense
WEBSITE	https://www.northropgrumman.com/what-we-do/space/launch-vehicles/antares-rocket
JOBS	https://www.northropgrumman.com/careers

Thomas Maniscalco
Retired

Retired



Thomas Maniscalco is a retired aerospace engineer with a career at Kearfott Guidance and Navigation and Bendix Corporation, where he worked on systems for the Space Shuttle and Saturn V rockets. After retiring at 79, he earned a Master's in Mechanical and Aerospace Engineering from Rutgers in 2025, becoming the university's oldest graduate at 85. He also holds a Doctor of Engineering from NJIT and a Bachelor's from NYU and serves as vice chair of his local ASME section.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Retired



Retired

Gerald Feder
Retired (formerly Senior Project Engineer)

Gerald Feder had a 30 year career at Kearfott Guidance and Navigation as a Senior Project Engineer, leading design and production of high accuracy gyroscopes used in the Space Shuttle, B2 bomber, M1A2 Abrams, and NASA satellites. He also presented at the CIA and conducted source inspections for precision bearings. Earlier he worked at Pratt and Whitney in compressor aerodynamics. He holds a BS from Rutgers and an MS from Rensselaer and has served on the advisory board since its start.

COMPANY AT A GLANCE

INDUSTRY	Aerospace & Defense
HEADQUARTERS	Pine Brook, NJ
WEBSITE	https://www.kearfott.com/
JOBS	https://www.kearfott.com/careers/

Pravin Raghuwanshi
Professor (Retired)

COMPANY AT A GLANCE

INDUSTRY	Education (Retired Faculty)
HEADQUARTERS	New Brunswick, NJ
WEBSITE	www.rutgers.edu
JOBS	mae.rutgers.edu

Daniel Tsoy

COMPANY AT A GLANCE

INDUSTRY	Pharmaceuticals
HEADQUARTERS	Princeton, NJ
WEBSITE	https://www.bms.com/
JOBS	https://careers.bms.com/