

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.

December 2nd, 2021

**INFORMATION
BOOKLET**



Sentient Science

Abhir Adhate

Product Director, Modeling & Simulations



Abhir Adhate is a Product Director at Sentient Science, specializing in Computational Fluid Dynamics Analysis and Aerodynamic Design. His experience includes over 7 years with Pratt & Whitney working with Compression System Aerodynamics. Abhir graduated from Rutgers with a B.S. in Mechanical Engineering, and completed his M.Eng from RPI. During his time at Rutgers, Abhir was a Team Leader for the Rutgers Formula Racing Team and was in charge of the design and manufacturing of the RFRF11 Formula SAE Car.

COMPANY AT A GLANCE

INDUSTRY	Enterprise Software
HEADQUARTERS	Buffalo, NY
WEBSITE	www.sentientscience.com
JOBS	www.sentientscience.com/company/careers/



EFE Laboratories, Inc.

Kip Anthony

President



Kip Anthony is President of EFE Laboratories, an established, solutions based contract manufacturer located in Horsham, PA. Kip's professional experience spans a wide range of industries, including heavy manufacturing/aerospace, food processing equipment, automotive, and aerospace. Among these, he has spent time with Schrader Bridgeport International, BE Aerospace, Cooper Industries, O.S. Kelly Co. (now a subsidiary of Steinway Musical Instruments), and others. In addition to a B.S. in mechanical engineering, Kip holds an MBA (with concentration in finance) from Ohio State and Ashland universities. With more than a decade of service to EFE, and in his current role as President, Kip is the ultimate facilitator of both customer satisfaction and strategic direction for the company.

COMPANY AT A GLANCE

INDUSTRY	Contract Manufacturer
HEADQUARTERS	Horsham, PA
WEBSITE	www.efelabs.com
JOBS	www.efelabs.com/careers/

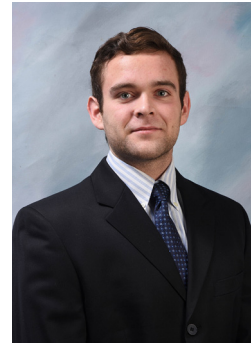
Marotta Controls



Bristol-Myers Squibb

Robert DeSimone
Senior Engineer

Robert DeSimone received a Bachelor of Science and a Master of Science degrees from Rutgers University in 2016 and 2019 respectively. While at Rutgers, Rob was an active member of the Rutgers Formula Racing team as the Controls Team Lead. After a successful internship at Marotta Controls in the Space and Weapons Engineering group, Rob accepted a full time position. At Marotta, Rob focuses on design work for Marotta's historical aerospace primes as well as the new space industry. Rob is a key member of Marotta's internship leadership team working on recruiting and mentoring young talent for the engineering team.



COMPANY AT A GLANCE

Precision Control Components and Systems
Montville, NJ
www.marotta.com
www.marotta.com/talent

INDUSTRY
HEADQUARTERS
WEBSITE
JOBS

Dovas Law, P.C.

DOVAS LAW P.C.
An Intellectual Property Firm

Dimitri Dovas
Attorney

Dovas Law was founded in 2006 as a Professional Corporation with a focus on intellectual property matters. We work to meet the needs of domestic and foreign clients, including corporations, law firms and individuals, who seek to protect ideas and innovation in varying fields and technologies. Dimitri Dovas received his Juris Doctor from Rutgers Camden School of Law and his Bachelor of Science, with honors, from Rutgers College of Engineering. He is admitted to practice law in Pennsylvania and New Jersey and licensed to prosecute patent applications before the United States Patent and Trademark Office.



COMPANY AT A GLANCE

Patent Law
Philadelphia, PA
www.dovaslaw.com

INDUSTRY
HEADQUARTERS
WEBSITE

INDUSTRY
REPRESENTATIVE



Con Edison

Aaron Israel
Senior Specialist



Aaron Israel started his career working in R&D developing and testing gasoline and diesel catalyst products in the engine test facility at BASF. In 2007, Aaron moved on to a local Caterpillar dealer (Foley Incorporated) to support the sales, application engineering, installation, federal and state regulation interpretation regarding air emissions regulations, and field diagnostics for various diesel emissions retrofit products. In 2013, Aaron joined ESW America (Subsidiary of ESW Group) as the Business Development Engineer to grow the engine and vehicle emissions testing business by developing and implementing a marketing plan to increase the annual sales revenue of the engine and vehicle emissions testing service. He has a B.S. in Mechanical Engineering degree from Rutgers University and a MBA from Zicklen School of Business, Baruch College City University of NY.

COMPANY AT A GLANCE

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



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

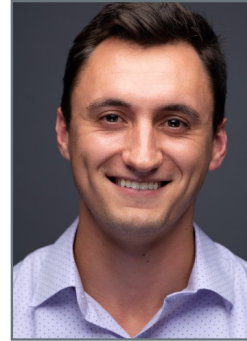
CodeGreen Solutions



CODEGREEN

Andrew Karlovich
Commissioning Engineer

Andrew Karlovich is a Commissioning Engineer at CodeGreen Solutions, where he has been working for the past 3 years. He supports senior commissioning engineers during New Construction Design Phase Commissioning and Construction and Occupancy Phase Commissioning. This includes review of MEP submittals, site reporting, development of pre-functional checklists and functional tests. Andrew graduated from Rutgers University with a B.S. in Mechanical Engineering and MBS from the Rutgers University Graduate School of Business and Science.



COMPANY AT A GLANCE

Sustainability and Energy
New York, NY
www.codegreen.com

INDUSTRY
HEADQUARTERS
WEBSITE

JAKTOOL



Adrial Kirchen
Tech Director

Adrial Kirchen leads the engineering department at JAKTOOL, supporting internal and external prototype development efforts, which is responsible for creating new enabling technologies across all business sectors. Previously, Adrial worked as a Senior Engineer for Sikorsky Aircraft for 10 years, where he worked as part of a small team to design and analyze the new and innovative Rotor System for the CH-53K. Adrial holds a B.S. in Mechanical and Aerospace Engineering from Rutgers University. While at Rutgers, Adrial was an active member of the Rutgers Formula Racing team as the Suspension Team Lead.



COMPANY AT A GLANCE

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

INDUSTRY
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WEBSITE

INDUSTRY
REPRESENTATIVE



GEOshare, a Lockheed Martin Company

Florette Laurizio
Vice President, Sales and Marketing



Florette Laurizio is the Vice President, Sales and Marketing of GEOshare, a wholly owned satellite company of Lockheed Martin, where she manages GEOshare's customer relationships, sales and marketing processes, and operations. Florette has 35 years of commercial satellite communications industry experience across satellite and service businesses. Previously, Florette held various senior management positions in Business Development, Marketing, Sales, and Capture Management for GE Astro Space, Martin Marietta Astro Space, Lockheed Martin Telecommunications, and Lockheed Martin Commercial Space, and 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 MBA and a BS in Electrical Engineering from Rutgers University.

COMPANY AT A GLANCE

- INDUSTRY** Satellite Technology
- HEADQUARTERS** Tysons, VA
- WEBSITE** www.geoshare.com
- JOBS** www.lockheedmartinjobs.com



Firmenich

Clare Lumkong
Director, Sustainability GWS



Ms. Lumkong is an experienced leader in building and leading sustainability programs. She recently joined Firmenich as the Director of Sustainability for Global Workplace Solutions. Previously, she was with Bristol Myers Squibb (BMS) as the Global Manager of Sustainability with the Corporate Group; and worked with Lockheed Martin Space Systems Company in various roles at the site and division level in Environment, Health and Safety (EHS), as well as Go Green Program Manager. Clare has also served on the Board of Directors for the Pharmaceutical Supply Chain Initiative (PSCI), holding positions as Treasurer and Secretary.

COMPANY AT A GLANCE

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

NJMEP



Robert Mazzuca

Business Development Executive

Robert is a Business Development Executive and Strategist for the Pro-Action Education Network under the New Jersey Manufacturing Extension Program. Prior to joining NJMEP, Robert served as Chairman of Economic Development with a Science & Technology Congressional Research Compact created by The Presidents' Science Advisor/ Director of the White House Office of S&T Policy (OSTP). Robert's formal background is in the Aerospace & Defense Industry with over 20 years of experience. His tenure was with Fortune 10 companies: RCA Corporation, GE Aerospace, Martin Marietta Missiles & Defense and Lockheed Martin Missiles & Space. During that time, he developed disciplines in High Reliability Manufacturing, Spacecraft Systems Integration & Test, Concurrent Engineering Development and Lean Process Improvement.



COMPANY AT A GLANCE

Non-profit Organization Management
Cedar Knolls, NJ
www.njmep.org

INDUSTRY
HEADQUARTERS
WEBSITE

JAKTOOL



Cristy Richards

President and CEO

Cristy Richards currently oversees the quality and procurement departments at JAKTOOL and leads consumer healthcare and medical device new business development. 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

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

INDUSTRY
HEADQUARTERS
WEBSITE

**INDUSTRY
REPRESENTATIVE**



Lockheed Martin

Jasmine Sawaged

Deputy Technical Director & ELDP



Jasmine Sawaged is a Deputy Technical Director at Lockheed Martin. After successfully completing two internships with Lockheed Martin, she accepted a full time position. Over the last two years, she has served in roles as a Lead Analyst, Product Owner, and Mechanical Design Engineer prior to her current position. Jasmine received her B.S. from Rutgers in Mechanical Engineering, as well as her M.Eng. from Cornell University.

COMPANY AT A GLANCE

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



ASCO, L.P.

Scott Schipper

Engineering Manager, Agency Approvals



Mr. Scott Schipper is an engineering manager at ASCO Valve, Inc., Florham Park, New Jersey. For the past 3 years, he has been serving as manager of agency approvals and certifications. He has been with ASCO Valve since 1994. Prior to ASCO Valve, from 1987 to 1994, Mr. Schipper was a senior design engineer with Pratt and Whitney Aircraft Division of United Technologies, East Hartford, CT, where he worked on various jet engine projects including the PW4000 series engine derivative which was eventually launched on the Boeing 777.

COMPANY AT A GLANCE

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

MUFG



Thomas Serafin

Investment Banking Associate

Thomas Serafin is an Investment Banking Associate at Mitsubishi UFG Financial Group. Before joining MUFG, he had internships as a Summer Analyst at Goldman Sachs and an Analyst at Bloomberg LP. Thomas graduated from Rutgers with a B.S. in Mechanical Engineering, and received his M.Eng in Financial Engineering from Cornell University.



COMPANY AT A GLANCE

Financial Services	INDUSTRY
Tokyo, Japan	HEADQUARTERS
www.mufig.jp/english/index.html	WEBSITE
www.mufig.jp/english/careers/index.html	JOBS

East/West Industries, Inc.



Michael Vetter

Senior Director of Product Development

Michael Vetter is the Senior Director of Product Development at East/West Industries. Holding multiple roles over his 14 years of employment, Mr. Vetter has managed teams that develop industry leading safety and life support equipment in the Aerospace and Defense industry. He also has experience developing innovative and cost effective proposals for his customers. Michael graduated with a B.S. in Mechanical Engineering from Rutgers University in 2005.



COMPANY AT A GLANCE

Aerospace, Defense	INDUSTRY
Ronkonkoma, NY	HEADQUARTERS
www.eastwestindustries.com	WEBSITE
eastwestindustries.applicantpro.com/jobs/	JOBS

INDUSTRY
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Haim Baruh

Professor, Director of NJSGC



Dr. Haim Baruh has been an engineering researcher and educator for over 30 years. He has taught over 15 different aerospace and mechanical engineering courses, as well as conducting research in structural dynamics, control systems, and impact mechanics. Dr. Baruh has over 40 archival journal publications and two textbooks (Analytical Dynamics, Applied Dynamics). He is also the Director of the New Jersey Space Grant Consortium (NJSGC), which creates STEM fellowship, research and internship opportunities for college students, and course and lab development opportunities for higher education faculty.

COMPANY AT A GLANCE

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

Alberto Cuitino

Professor, Chair



Dr. Alberto Cuitino is a Professor in the Mechanical and Aerospace Engineering Department at Rutgers University and is currently serving as Department Chair. He has served as a Site Leader of the NSF Engineering Research Center for the Structured Organic Particulate Systems, He received a Civil Engineering Diploma from the University of Buenos Aires, Argentina, in 1986, and an MS degree in Applied Mathematics, as well as a Ph.D. in Solid Mechanics from Brown University in 1992 and 1994 respectively. His research interests include advanced manufacturing of pharmaceuticals, material modeling, computer simulations, and granular materials.

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Yuebin Guo

Henry Rutgers Professor of Advanced Manufacturing

Dr. Yuebin Guo is the Henry Rutgers Professor of Advanced Manufacturing in the Mechanical and Aerospace Engineering Department. His research interests include additive manufacturing, physics-informed machine learning, and materials informatics. Dr. Guo received his M.Eng. from UC Berkley and his Ph.D. from Purdue University, both in Advanced Manufacturing. His honors include the ASME Federal Government Swanson Fellow and NSF Career Award.



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Dave Magnoni

Director of Corporate Engagement

Dave Magnoni is director of corporate engagement at Rutgers University, working to enhance industry engagement with the university. His career includes more than 20 years of industry experience in both startup and established technology companies. With roles in product management, strategy and product marketing, Dave has consistently driven growth in both emerging and mature markets. Dave graduated from the US Naval Academy and holds an MS in Computer Science from New York University and an MBA from the MIT Sloan School of Management.



UNIVERSITY AT A GLANCE

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

Aaron Mazzeo
Associate Professor

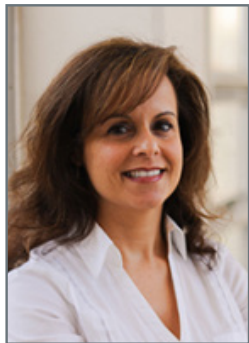


Dr. Aaron Mazzeo is an associate professor in the Department of Mechanical and Aerospace Engineering and a faculty fellow at the Honors College at Rutgers University. Prior to joining the faculty at Rutgers, he was a postdoctoral fellow at Harvard University in the Department of Chemistry and Chemical 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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UNIVERSITY WEBSITE	www.rutgers.edu
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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UNIVERSITY WEBSITE	www.rutgers.edu
DEPARTMENT WEBSITE	mae.rutgers.edu

Rutgers University
Mechanical and Aerospace Department

RUTGERS
School of Engineering

Jerry Shan

Professor, Graduate Program Director

Dr. Jerry Shan is Professor and Graduate Program Director in the Mechanical & Aerospace Engineering Department at Rutgers University. He received his degrees from Caltech (PhD in Aeronautics with minor in Electrical Engineering, MSc in Aeronautics, and BSc in Engineering & Applied Science). He and his group have made contributions to the understanding of nanoscale ion and fluid transport, mechanisms for cell and tissue electro-transfection, the thermophysics of microstructured suspensions, and the scalable fabrication of nanotube membranes for various applications. His honors include the NSF CAREER Award, Excellence in Teaching Award from the Rutgers Engineering Governing Council, the President's Scholar-Teacher Award from Rutgers University, and the Director's Award in Science & Technology from Lawrence Livermore National Laboratory.



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Piscataway, NJ	LOCATION
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mae.rutgers.edu	DEPARTMENT WEBSITE

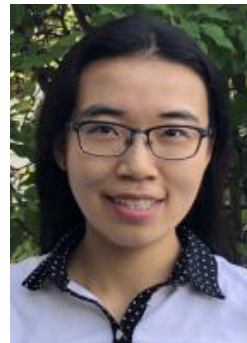
Rutgers University
Electrical and Computer Engineering

RUTGERS
School of Engineering

Yuqian Zhang

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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& AEROSPACE ENGINEERING



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SentientScience



Rutgers Mechanical and Aerospace Engineering Student Association
Rutgers Mechanical and Aerospace Engineering



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Mechanical and Aerospace
Engineering

Rutgers Mechanical and Aerospace Engineering
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