

# Michael Galsim

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## EDUCATION

**Rutgers University - New Brunswick, NJ**

*Bachelor of Science in Industrial and Systems Engineering, Bachelor of Arts in Computer Science*

May 2026

**GPA: 3.96/4.00**

• **Honors and Certifications:** Lean Six Sigma Yellow Belt, Honors College, Tau Beta Pi, President of Alpha Pi Mu NJ Beta

## SKILLS

**Software:** Python (Pandas, NumPy), R, SQL, MATLAB, C/C++, Java, ROS2, AutoCAD, Revit, JMP, HTML/CSS, Excel

**Technical Skills:** Statistics & Data Analytics, System Analysis, Forecasting & Predictive Modeling, Machine Learning, Quality Engineering, Supply Chain Management, Operations Research, Continuous Improvement, Project Management

## PROFESSIONAL EXPERIENCE

**SpaceX**

**Bastrop, TX**

*Reliability Engineering Intern - Facilities*

June 2025 – Present

- Owning operations, maintenance, and reliability of mission critical systems for Starlink terminal manufacturing
- Collaborating with cross-functional teams, Industry 4.0 to implement predictive maintenance and reduce downtime
- Executing ~\$70,000 in savings in live natural gas, HVAC, and heat transfer monitoring and process modifications

**Rutgers Renewables and Industrial Analytics Research Laboratory**

**New Brunswick, NJ**

*Research Assistant*

Jan 2025 – Present

- Designing an innovative predictive model using R and Python to forecast renewable energy waste across states
- Hybridizing techniques such as regression and classification to create accurate reports of energy curtailment

**A.K. De Rama Industrial Control Systems, Inc.**

**Mountainside, NJ**

*Engineering Intern*

July 2024 – August 2024

- Developed a diagnostic tool that identifies problems for control panels with 100+ unique parts
- Integrated technology into existing infrastructure, coordinating with electrical engineers and field technicians

**Rutgers Office of Information Technology**

**New Brunswick, NJ**

*Application Operations Supervisor*

May 2023 – Present

- Providing network and application support, resolving over 1000+ ServiceNow tickets through information security tools
- Operating Data Center facility while providing network support for critical outages supporting 300+ buildings using Slack, Grafana, MIST, Schneider Electric DCVIM, and Jira technologies, implementing agile lean principles

## LEADERSHIP EXPERIENCE

**Chem-E-Car**

**Piscataway, NJ**

*Stopping Mechanism Project Lead*

September 2022 – Present

- Led 15-member team to design a shoebox-sized chemically powered car; optimized calibration via MATLAB and Python
- Increased productivity by 50% through process standardization, human factors, change management, and troubleshooting

**Engineering Government Council**

**Piscataway, NJ**

*Engineering Affairs Chair*

October 2022 – Present

- Surveyed 4,000+ engineering students to inform academic policy, resulting in improved research funding
- Launched a 2,000+ lb food drive; partnered with Rutgers PD to conduct campus lighting study, enhancing safety

**Road to Consulting (Rutgers Business School)**

**New Brunswick, NJ**

*Cohort 3 Analyst*

September 2023 – Present

- Selected as 1 of 42 from 240+ applicants; completed case competitions, market entry analysis, supply chain assessments

**Taiwanese American Student Association (TASA)**

**New Brunswick, NJ**

*Treasurer*

November 2022 – Present

- Managed \$75,000 annual budget, increasing financial efficiency by 38% for events with 2500+ attendees
- Secured partnerships with Taiwanese government, Yakult, and organizations such as TAP-NY, 99 Ranch, and Gong Cha

## PROJECTS

**Cobot Assisted Manufacturing**

**New Brunswick, NJ**

*Lead Designer*

January 2025 – Present

- Inventing an autonomous collaborative robot gesture-controlled model with ROS2, MoveIt 2, and computer vision
- Employing edge computing to directly interact with the cobot for assistance in manufacturing assemblies

**Verizon Smart Campus Competition**

**Basking Ridge, NJ**

*Systems Engineer*

January 2025 – April 2025

- Developed AR glasses with ML-driven ASL recognition, transcription, and translation; won top prize among 75+ people