

OM PATEL

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EDUCATION

Rutgers, The State University of New Jersey, 3.48/4.0

BEng, Electrical & Computer Engineering | Minor: Economics

New Brunswick, NJ

Expected May 2026

- **Relevant Coursework:** Digital Design, Principles of EE, Intro to Computer Science
- **Organizations:** Theta Tau (Professional Engineering Fraternity), RU Makerspace, RU Airborne (AIAA)

University of Auckland

COPEX - Exchange Program

Auckland, New Zealand

January 2024 - July 2024

- **Relevant Coursework:** The Sustainable Community, Law & Economics, Econometrics
- **Organizations:** AU Engineering for Sustainable Development, AU Canoeing Club, AU Tramping (Hiking) Club

PROFESSIONAL EXPERIENCE

Rutgers University

Offshore Wind Farm Research Fellow

New Brunswick, NJ

August 2024 - Present

- One of six to receive the Segal Scholarship for research and development of sustainable initiatives at Rutgers
- Design, construct, and test a model floating offshore wind turbine in an advance wind tunnel-water tank facility
- Developed dynamic fluid models in MatLab/Python to study performance in various environmental conditions

Lavner Education

STEM Instructor/IT

Fort Washington, PA

June 2023 - August 2023

- Wrote and updated 4+ curriculums for various STEM topics such as Arduino, Robotics, Scratch Coding, and Java
- Assisted with the setup and maintenance of on-site computer hardware, software, and internet connectivity
- Delivered quality, educational instruction to 25+ students in a class and in one-on-one environments

Javan Engineering

Instrumentation & Controls Intern

Fort Washington, PA

July 2022 - August 2022

- Led the creation of 3+ proposals through the analysis of instrument electrical single-line drawings & architect plans catering to each client's scope of work. Presented these proposals to a team of 15+ Javan engineers
- Implemented improvements to outdated factory controller centers, aligning them with current industry standards, which resulted in a decrease in energy costs by 30% and an overall safer environment for all plant employees
- Spearheaded the creation of 50+ Javan panel and equipment drawings in AutoCad using images taken on-site
- Coordinated with diverse engineering disciplines to ensure comprehensive quality assurance and quality control was implemented for each proposal and cost of work estimate utilizing Microsoft Excel and Word

PROGRAMS/PROJECTS

NASA University Student Research Challenge

Autonomous Drone Based Water Sampling & Quality Testing

New Brunswick, NJ

August 2024 - Present

- Architected a fully autonomous quadcopter to navigate and collect 50 mL samples from the Raritan River in NJ
- Utilized Arduino & Pixhawk flight controller hardware and software to develop the drone system & automation
- Meeting NASA's stringent requirements and timelines for developing and funding the operational drone system

Deloitte

Deloitte Academy 2018 Cohort Member

Princeton, NJ

January 2018 – June 2022

- Integrated with Deloitte professionals in diverse workshops to build practical and real-world professional skills
- Executed 2+ realistic practice events mirroring realworld case studies preparing for practical realworld challenges

LEADERSHIP AND EXTRACURRICULARS

RU Airborne

Associate Team Lead

New Brunswick, NJ

January 2023 – Present

- Supported the aerostructures team lead of RU Airborne, a club that competes in the AIAA Design-Build-Fly Competition, applying engineering skills to design and build UAVs to complete a variety of real-world missions
- Ranked top 10% of qualifying university teams from across the globe in the UAV technical design report
- Collaborated with fellow club members to translate conceptual aircraft designs into flight-ready systems, gaining hands-on experience in project management, problem-solving, and teamwork utilizing the Rutgers Makerspace

SKILLS, HOBBIES, INTERESTS

Skills: Java, Javascript, Python, C++, Matlab, AutoCAD, Microsoft Office, Project Management, Mission Planner

Hobbies: Golfing, Chess, Woodworking, Hiking, Mountain Biking