Michael Evans

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Education

Rutgers University– Bachelor of Science in Mechanical Engineering & Computer Science May 2027

Specialization: Aerospace | GPA: 3.47 / 4.00 | Major GPA: 3.71 / 4.00 | Dean's List 2023–2025

Experience

Grocery Associate, Amazon Fresh – Woodland Park, NJ Apr 2025 – Present

- Located items under strict time limits as a trusted "Item Not Found" (INF) finder, reducing missed items by 80%
- Consistently hit ~70 units per hour (UPH) while processing hundreds of items, placing in the top 5% of associates
- Certified as 1 of only 5 among 100+ associates to operate pallet jack and baler, improving backroom and floor flow

Undergraduate Research Assistant – Piscataway, NJ May 2025 – Aug 2025

- Simulated a bandage-peeling robot in MATLAB/Simulink/Simscape, implementing PID control for safe, precise removal
- Researched adhesive–skin interaction and peel mechanics; calibrated force profiles to reduce trauma and variability
- Coordinated experiments and code reviews in a real-time controls group; authored docs toward future publication

STEM Instructor, Little Ivy Academy – Ridgewood, NJ Jun 2024 – Sep 2024

- Taught VEX robotics, block coding, and Python to ages 8–14, tailoring pacing to skill level to keep engagement high
- Designed and piloted interactive STEM lessons and build challenges; materials were adopted for future sessions
- Mentored teams through robot design, wiring, and debugging; improved collaboration, delivering reliable robots

Projects

Color-Tracking Turret System Jan 2025 – May 2025

- Built a pan-tilt turret, integrated OpenCV detection to Arduino PWM control, defined signal ranges and I/O
- Tuned response, motion limits, and update rate to reduce overshoot, achieved about 50 percent smoother tracking
- Documented wiring, schematics, and a bench test plan with latency, pixel error, and pass or fail thresholds

Rocket Motor Testing Stand Sep 2024 – Dec 2024

- Designed fixtures and mounts in SolidWorks, ran basic FEA to verify safety factors under expected dynamic loads
- Planned interfaces for the load cell and DAQ systems, documented assembly steps for reliable, repeatable setup
- Wrote a formal test procedure with safety and acceptance criteria, supported technical readiness reviews

Container Assembly Robot – Team Lead Sep 2022 – Jun 2023

- Led team to develop an automated robot for container assembly integration with a base of VEX robotics tools
- Managed mechanical design with Autodesk Inventor and fabrication using 3D printing and laser cutting
- Programmed control logic in Python; project recognized as Best Engineering Project (Top 1% out of 100+ students)

Awards

- Verizon Smart Campus Competition Finalist – Recognized for innovative engineering design and problem-solving
- DCL STEM Expo Engineering Winner (High School) – Awarded for excellence in student engineering and design presentation

Skills

CAD: SolidWorks, Autodesk Inventor, AutoCAD
Programming: MATLAB, Python, Java
Manufacturing: 3D Printing, CNC Milling, Laser Cutting, Soldering, Analysis, Control Systems, Git
Languages: English (native), Spanish (A2 – elementary proficiency)