

Hunter Myers

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Objective

Multidisciplinary engineer seeking Spring/Summer/Fall 2026 internship. Pursuing an AI/ML track; open to CS/Software Engineering roles to learn, grow, and contribute. Open to relocation; onsite, hybrid, or remote.

EDUCATION

Rochester Institute of Technology	Expected May 2027
<i>Master of Science in Computer Science; Advanced Certificate in Artificial Intelligence</i>	GPA: 3.89/4.0
Rochester Institute of Technology	
<i>Bachelor of Science in Mechanical Engineering Technology; Minor in Manufacturing Technology</i>	May 2024

SKILLS

Languages & Scripting: Python, Java, MATLAB, C/C++, HTML, JavaScript, CSS

Libraries & Frameworks: Pandas, NumPy, SciPy; scikit-learn, TensorFlow/Keras, Matplotlib

Tools & Platforms: Linux, Bash, Jupyter, Google Colab, Git, Conda/Venv; SQL

CAD/CAE: SolidWorks, Fusion 360, ANSYS Workbench, Autodesk Inventor, Minitab

Certifications: SolidWorks Mechanical Design, DMADV Green Belt, Six Sigma Green Belt

PROJECTS

Fish Movement Prediction – Personal May 2025 – Current

- Developed an end-to-end fish movement predictor system; achieved 60% mean path accuracy (95% peak).
- Preserved a clean data set from raw video (15 FPS, labeled, per-frame CSV); trained YOLOv8 for reliable detection.
- Created stable ID assignments under occlusions/crossings using Kalman filtering and Hungarian matching.
- Preserved per-fish trajectories using active/grace/inactive state pools; kept frame-to-frame IDs stable.
- Trained an LSTM forecaster (20s history, 10s horizon); fixed early collapse with velocity and regularization.

Automated Recycling Sorting (The Recyclone) – RIT January 2024 – April 2024

- Applied DMADV to turn VOC into CTQs ($\leq 1s$ cycle, $\geq 95\%$ ID, 10-gal fit) and a testable spec.
- Prototyped controller with ultrasonic/inductive/capacitive sensing and sensor-fusion driving 3 stepper ejectors.
- Optimized ejectors to reduce friction and improve repeatability by developing a 3-bearing rack-and-pinion design.

EXPERIENCE

Synergy Tooling Systems Buffalo, NY January 2022 – August 2023

Process Improvement Engineer Intern Hybrid

- Implemented in-house Braille pipeline reducing cost and lead time by 75% via CAD/CAM automation and tooling.
- Facilitated in-house machining and faster iteration by converting a CNC vacuum table to 3-axis milling.
- Qualified supplier samples by building deflection/pressure/force stands and standardizing rubber analysis.
- Reduced CAD outsourcing by creating reusable employee training on SolidWorks and Fusion 360.

Multi Parts Jupiter, FL May 2021 – August 2021

Product Engineer Intern In-Person

- Built endurance tester (4-bar); multi-million cycles at -40°F to 180°F ; led the process from concept to assembly.
- Engineered a manufacturable rack-and-pinion from a 3D gear-tooth concept; released to production.
- Enabled supplier comparison and selection by creating test procedures for manifold absolute pressure sensors.