

Michael Felix

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EDUCATION

Fairfield University, Fairfield, CT

Bachelor of Science in Mechanical Engineering, Minor: Mathematics

Class of 2025

Overall GPA: 3.67, Major GPA: 3.68

Honors: Tau Beta Pi Member - Engineering Honor Society; Graduating Honors - Cum Laude

Study Abroad Semester in Mechanical Engineering in Galway, Ireland

Master of Science in Mechanical Engineering

Class of 2026

Thesis: 3D-printed PCM/TPMS heat-sink design & experimental validation.

Graduate TA (Senior Design): CAD/DFM reviews, test planning, documentation.

PROFESSIONAL SUMMARY

MSME candidate ('26) and ME graduate ('25) with award-winning work in precision manufacturing and thermal management. Lead design-to-validation cycles and cross-functional teams; skilled in CAD/DFM, test planning, and technical communication. Partnered with industry sponsors to meet targets on tight timelines, translating analysis into manufacturable, test-validated solutions through hands-on prototyping and data-driven iteration.

ENGINEERING/COMPUTER SKILLS

- **Design/Analysis:** SolidWorks, Inventor, AutoCAD, GD&T, DFM, ANSYS, MATLAB
- **Controls/Programming:** Arduino/Arduino IDE, Python
- **Processes:** ECM, CNC

RELATED EXPERIENCE

Fairfield University, Fairfield, CT

Electrochemical Micro-Orifice Deburring System

September 2024-May 2025

- **Best Senior Design Project**—Automated needle positioning with stepper + Arduino; established a process-parameter window for ECM deburring of micro-orifices down to a diameter of 0.001 in, improving edge and flow consistency. Executed a test plan and documented results; collaborated with O'Keefe Controls to define targets and validation criteria

WORK EXPERIENCE

Teamworks Real Estate Inspections, Paramus, NJ

May 2024-August 2024

Inspector Assistant

- Gained hands-on experience with CAD to document field data and create inspection reports while assisting in property evaluations using drone and aerial technology
- Shadowed survey teams on boundary, topographic, and construction site assessments
- Observed home inspections, evaluating structural components, plumbing, electrical, and HVAC systems while identifying and documenting potential concerns (e.g., water damage, pests)
- Ensured compliance with local building codes and zoning regulations

Spring Brook Country Club, Morristown, NJ

Assistant Head of Outdoor Golf Operations and Golf Caddy

May 2021-present

- Led supervisor coverage and projects to keep operations smooth and on time; coordinated schedules and maintained organized records
- Trained new staff on SOPs and service standards; resolved member issues quickly through clear communication and problem solving
- Strengthened member relationships and protected pace of play; consistently upheld professionalism and program guidelines