

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 with award-winning experience in precision manufacturing and thermal management. Skilled in SolidWorks, ANSYS, and MATLAB for design optimization and validation. Proven success leading cross-disciplinary projects with industry partners to deliver manufacturable, data-driven solutions.

ENGINEERING/COMPUTER SKILLS

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

RELATED EXPERIENCE

Electrochemical Micro-Orifice Deburring System — Best Senior Design Project (with O’Keefe Controls)

Fairfield University

September 2024-May 2025

- Collaborated with O’Keefe Controls to define design targets and validation criteria for an automated electrochemical deburring system. Designed and programmed stepper-motor needle positioning using Arduino to establish ECM parameters for micro-orifices as small as 0.001 in, executing structured test plans that improved edge uniformity and flow consistency across prototypes.

WORK EXPERIENCE

Teamworks Real Estate Inspections, Paramus, NJ

May 2024-August 2024

Inspection Engineering Assistant

- Assisted field engineers with structural and systems inspections; captured and analyzed site data using drone imaging and CAD-based reporting
- Produced technical documentation integrating mechanical, electrical, and HVAC findings to support compliance reports
- Shadowed surveying and topographic teams, gaining familiarity with geospatial data collection and site layout methods

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