

Michael Beske-Somers (E.I.T.)

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EDUCATION

University of Vermont

May 2025

Bachelor of Science in Mechanical Engineering (GPA: 3.63)

Minor: *Mathematics - Pure*

Certificate Concentration: *Computer-Aided Engineering Technology*

Awards: *Tau Beta Pi Honors Society, Presidential Scholar Recipient, Dean's List Fall 2021 - Spring 2023*

Fundamentals of Engineering Exam: *Passed on 8/2/24*

RELEVANT EXPERIENCE

Senior Capstone Project, with Liquid Measurement Systems

August 2024 - May 2025

- Coordinated with external client Liquid Measurement Systems to develop and prototype a circuit board test rig for airplane fuel probes that can easily connect and disconnect 4 circuit boards without use of tools
- Designed a custom circuit board to connect the testing boards to the testing system where all electronics and components operate properly under thermal cycles that go between -45 and 55 degrees Celsius
- Interfaced with supply vendors and manufacturers for to obtain the specific connectors and parts required

UVM FabLab, *Special Projects Officer*

Burlington, VT Spring 2023 - May 2025

- Operated and maintained equipment including both FDM and SLA 3D printers, a laser cutter, soldering equipment, a sewing machine, a Cricut, a plotter, and a reflow oven.
- Advised and instructed students and clients on proper fabrication procedures
- Learned workflows and specific problem-solving systems for each piece of equipment
- Developed internal workflows and operations for projects involving the fabrication of 1000 parts
- Worked with professors to adapt projects to the constraints and workflows of the lab

NASA Vermont Space Grant Consortium Research Experience for Undergraduates

Summer 2024

- Developed a mathematical model for the phenomena of snow melt on PV solar panels
- Conducted a literature review on the mechanics of how snow melts on PV solar panels
- Researched and simulated heat transfer through PV solar cells

Garvey Corporation, *Detailer*

Hammonton, NJ June 2020 - August 2022

- Created drawings in SolidWorks of complex parts and assemblies to be manufactured and constructed
- Completed the detailing of complex assemblies involving up to and more than 100 unique parts and subassemblies in SolidWorks
- Performed dimensioning and detailing of plastic, sheet metal, and stock parts
- Calculated material requirements for fabrication of parts

ADDITIONAL EXPERIENCE

Surface Creations Of Maine, *Machinist*

Portland, ME Summer 2025

- Calibrated and operated CNC machine to cut and polish natural stone, quartz, and ultra-compact slabs
- Maintained CNC machine, Robotic SawJet, and gutter and filtration systems
- Hand-polished and penciled countertops

Vermont Tortilla Company, *Quality Control*

Shelburne, VT June 2023-August 2023

- Provided immediate quality control to recover and reuse mass amounts of product
- Operated and maintained mixer and tortilla roller

TECHNICAL SKILLS

SolidWorks, AutoCAD, OnShape, Laser Cutting, 3D Printing, Google Suite, Microsoft Suite, Ansys Fluent, Abaqus, Python, Tecplot, Autodesk Inventor

OTHER INTERESTS

Songwriting, Dungeons & Dragons, Hiking, Painting, Model-making