Kineo Sommers

kineosommers@gmail.com (207) 331-2552 kineo-sommers.com Portland, ME

Education

University of Vermont Burlington, VT
BS. Mechanical Engineering **Expected May 2028**
– GPA: 3.99/4.00 | Minor: Astronomy

Experience

UVM FabLab Burlington, VT
Facilities Manager & Project Advisor **February 2026 – Present**
– Maintain laboratory equipment (15+ 3D printers, 2 laser cutters, and various other machines).
– Improved filament recycling system, reducing dimensional variation by 28%.
– Advise students and faculty on slicing methodology and part design, achieving an average 30% increase in parts' specific strength.

Trademark, Inc. Portland, ME
General Contractor **June 2024 – Present**
– Work both independently and in a crew to complete residential construction for 6+ clients, including framing, installation, and finish carpentry.

Crown Jewel Portland, ME
Composting Manager **June 2022 - June 2024**
– Built and managed composting program to meet city-imposed 90% recycling requirement for restaurant's waste, achieving the objective in 1 year.
Line Cook **June 2020 - June 2024**
– Worked to maintain station and track order progression for the kitchen.

Projects

Compressor Test Platform **January 2026 – Present**
– Designed and built a test platform for high-speed axial and centrifugal compressors to collect baseline performance data for future integration into a turbojet.
– Integrated Arduino-based RPM and current measurement for closed-loop speed & power control.
– Analyzed pressure rise, RPM, and power consumption to characterize flow rate, efficiency, and validate blade geometry.

Custom TPU Feeding Module (3D printing) **October 2025 - February 2026**
– Designed and fabricated a custom low-shore TPU filament feeder, eliminating the need for manual top feeding.
– Used a novel closed-loop feedback system to determine the proper feed rate to the nozzle.
– Achieved 50+ hours of unattended printing using the module to date.

Technical Skills

Programming: Python, C++, Arduino, MATLAB, Java

Engineering Software: SolidWorks, Onshape, Microsoft Excel, AutoCAD

Design: FEA, DFM, GD&T, systems integration, rapid prototyping, data collection & analysis

Activities and Leadership

UVM Aerospace Club
Lead Airplane Designer **August 2026 – Present**
– Leading the plane design team for the upcoming 2027 AIAA Design/Build/Fly competition.