Niels Keller

nkeller.me

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Education

University of Vermont (UVM), Burlington, VT

Bachelor of Science in Electrical Engineering   Expected Graduation: May 2026

Minor: Computer Science

Year 3, Cumulative GPA: 4.0

- **Technical Skills:** Altium Designer, LTspice, Python, KiCad, MATLAB, 3D Printing, Cura, Fusion 360, C++, SOLIDWORKS, C, Linux, AutoCAD
- **Selected Honors: UVM** Dean's List (all terms), UVM Vermont Scholars Award Scholarship

Related Coursework

- CMPE 3815: Microcontroller Systems
- CS 2100: Intermediate Programming
- Math 3201: Adv. Engr. Mathematics
- EE 3110: Electronics I
- ME 1020: Engineering Shop Experience
- EE 2810: Fundamentals of Digital Design
- Physics 1550: Physics for Engineers II
- EE 2135: Circuits 2

Relevant Experience

Global Foundries, Burlington, VT   June 2024 – August 2024

Automation Robotics Intern

- Designed and tested replacement circuit boards to reduce cost and supply scarce parts
- Designed and oversaw live production tests in a high-stakes production environment
- Designed and implemented test systems for existing automated material handling equipment
- Analyzed test data to find cost effective solutions

Cannon Instrument Company, State College, PA   May 2023 – July 2023

Electrical Engineering Intern

- Collaborated on developing automated testing equipment for use in active production
- Designed, built, tested, refined, and documented the production of a PCB main board
- Developed embedded system firmware
- Collaborated with mechanical engineers for system integration

Institute of Electrical and Electronics Engineers (IEEE), Burlington, VT   September 2022 – Present

Project Team Leader - UVM Student Organization Member

- Lead student-run project
- Teach PCB Design and Source Control
- Teach electrical engineering fundamentals

Relevant Projects

Student Pilot   Ongoing

Single Engine Land

- Learning to understand and master flying skills
- Refining skills in problem-solving and effective communication