

Ben Miller

615-970-0558 | mill2878@purdue.edu | resume.bmiller8008.com | [LinkedIn](#)

Education

Purdue University – West Lafayette, IN

MS Electrical & Computer Engineering, Expected May 2025

BS Computer Engineering, May 2025 (Completed), GPA: 3.62/4.00

Concentrations: Computer Systems, Microelectronics/Semiconductors

Technical Skills

Hardware & EDA: Computer Architecture, RTL/ASIC Design, FPGA Development, KiCad PCB, LTspice

Software & Coding: SystemVerilog | Verilog | C | C++ | Python | MATLAB | Embedded C

Experience

Undergraduate Teaching Assistant – Purdue University

Jan 2025 – May 2025

– TA for ECE437 Computer Design Lab; mentored 40+ students in Verilog, assembly, and multiprocessor architecture.

– STARS Peer Mentor (Summer 2025): taught SystemVerilog and ASIC design concepts to incoming engineers in Purdue's semiconductor program.

Test Engineer Intern – Indesign LLC, Indianapolis, IN

May 2024 – Aug 2024

– Tested and validated embedded Linux systems and consumer products.

– Developed automated test scripts to improve reliability and efficiency.

– Collaborated with design engineers to troubleshoot and refine embedded solutions used in commercial deployments.

Undergraduate Researcher – Tillman Kubis Group

Sept 2023 – Jan 2025

– Built automation pipelines for a quantum-scale semiconductor simulator.

– Streamlined workflows with custom scripts, enabling faster iteration for graduate research projects.

Projects

Senior Design – Translating Glasses (ECE 477) –

– Led hardware development for award-winning wearable device translating visual text into audio.

– Designed embedded system integrating custom PCBs, microcontrollers, and battery-powered hardware; device won Purdue ECE Senior Design Award.

Leadership

President – Purdue 3D Printed Prosthetics Club

Sept 2022 – Present

– Oversaw 20+ members across 3 prosthetic device teams; managed project timelines and interdisciplinary collaboration.

Hardware Team Lead – IEEE SMC Club

Jan 2023 – Present

– Directed hardware team designing EEG headset electrodes and robotic hand for neural control research.

– Coordinated integration with software team to achieve successful live demonstrations.

Awards & Certificates

Senior Design Award – Translating Glasses, Purdue ECE 477

Every Boiler Engineer Codes (EBEC) Certificate – proficiency in Python, software design fundamentals