

Benjamin Shani

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EDUCATION

Vanderbilt University Nashville, TN
Bachelor of Engineering in Electrical Engineering May 2023
GPA: 3.93/4.00

The Loomis Chaffee School Windsor, CT
GPA: 3.75/4.00 May 2019

TECHNICAL SKILLS

Microsoft Office, Arduino, Java, C++, Assembly Programming, Circuit Design, LTSpice, KiCad, PCB

RELEVANT COURSEWORK

Circuit Design, Analog Electronics (With a Lab), Microcontrollers, Microelectronics, Signals and Systems, FPGA Design, Digital Systems (With a Lab), IC Fabrication, Technical Communication, RF and Microwave Design

PROFESSIONAL EXPERIENCE

Institute of Space and Defense Electronics Undergraduate Research Nashville, TN
Undergraduate Researcher January 2021 - Present

- Construct system-level programs, run tests, and analyze results to determine the susceptibility of different parts of a computer to radiation
- Attend conferences and meeting to learn about the specifics of radiation in microelectronics and other ongoing research fields within electrical and computer engineering
- Actively communicate and work with experts in the field in a research environment

Wolfspeed Inc. Engineering Internship Durham, NC
Test Engineering Intern May 2022 – August 2022

- Designed schematics, ordered parts, and developed a test system for power devices from scratch
- Developed a full project plan with Gantt chart, responsibility matrix, scope information to fully define summer project
- Bolstered my technical skills by soldering, wiring, crimping, building, and testing in an industry lab environment

LEADERSHIP AND ACTIVITIES

Vanderbilt University IEEE Chapter Nashville, TN
Vice President September 2021 - Present

- Evolve my university's Institute of Electrical and Electronics Engineers chapter to provide both myself and my peers with more opportunities to connect with the wider field of electrical engineering
- Plan and run general body meetings and sponsored events to promote electrical engineering centric activities outside of the classroom
- Expand and grow experience and skills in both managing and planning for an organization of several dozen undergraduate students

Vanderbilt Aerospace Design Laboratory Rocket Team Nashville, TN
Payload Designer / Member August 2022 – Present

- Research for, design, fully manufacture, and thoroughly test a rocket payload with a variety of RF, signal processing, and electromechanical systems
- Collaborate with fellow team members in a time-sensitive, fast-paced environment to design a working rocket and payload while keeping with strict NASA deadlines and requirements.
- Compose and edit a variety of proposals and reports to demonstrate both progress in design development and militainment of safety standards for both the laboratory and the rocket itself

ADDITIONAL SKILLS & INTERESTS

Languages: English, Hebrew, Arabic, Greek

Interests: Space, Renewable Energy, World History, Hiking, Radio