

Samuel Nolan

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EDUCATION

University of Michigan - Ann Arbor

Expected May 2024

Bachelor of Science, Electrical Engineering, GPA: 4.0/4.0

EXPERIENCE

Raytheon Technologies

May-Aug 2022

Missiles and Defense Group, ECAD Intern

Tewksbury, MA

- Learned and worked on the design of multiple PCBs using Mentor Graphics design software at the schematic, layout, and blueprint level up to the PCB fabrication.

BlueStamp Engineering

Jan-May 2022

Hiring Manager

Palo Alto, CA

- Effectively organized the hiring process of BlueStamp's virtual and in-person staff for the summer of 2022.
- Vetted over 200 candidates, reviewed resumes, administered interviews, and hired 18 engineering instructors.

LEADERSHIP

BlueStamp Engineering

June-Aug 2021

Teacher

Palo Alto, CA

- Taught high school students the basics of system design and Arduino programming.
- Acquired experience to effectively motivate and lead students in their projects overcoming the difficulties of teaching remotely.

Eagle Scout

2012-2020

Senior Patrol Leader

Yorktown Heights, NY

- Scheduled agenda for weekly meetings geared toward advancing each scout in rank/knowledge, lead scouts as a role model and routinely checked in to monitor progression and well-being.

PROJECTS

University of Michigan Solar Car Team

Jan 2021-2022

Electrical/Microsystem Division

Ann Arbor, MI

- Designed a full schematic and PCB for both lighting control and steering control using Altium software.
- Designed and tested a circuit board to be used to verify the functionality of the car's current sense capabilities.

Biologically Inspired Robotics and Dynamic Systems (BIRDS) Lab

June 2021-2022

Engineering Assistant

Ann Arbor, MI

- Created a website that catalogued past projects, reports, and how-to pages on setting up course software and materials.
- Created a Python script that verified the contents of students' submitted materials, sorted mandatory files from junk files and flagged missing documents.

Wayfinding Autonomous Drone

Sept-Dec 2020

Team Lead

University of Michigan

- Utilized IMU and LiDAR sensors to code an autonomous drone to successfully traverse a maze.
- Used computer vision to control the height of a drone. Isolated values based on hand height and inputted a proportional value as the target altitude of the drone.

Awards & Relevant Coursework

University Honors, Dean's list, William J. Branstrom Freshman Prize -Top 5% of first year engineering students

EECS 301- Probabilistic Methods in Engineering

EECS 281- Data Structures and Algorithms

EECS 300- System Design II

TCHNCLM 300- Technical Communication for Electrical Engineering

Proficient in Tools

C++, Python, Altium, Mentor Graphics, MATLAB, HTML, Arduino, NX Siemens, MS office, Raspberry Pi, LTSpice