Evan Z. A. Strittmatter

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EDUCATION

Yale University   **New Haven, CT**
Bachelor of Science   *Class of 2024*

- Electrical Engineering and Computer Science,; Certificate in Energy Studies   **GPA: 3.71**

PROFESSIONAL EXPERIENCE

Efficient Power Conversion   **El Segundo, CA**
Summer Intern Research and Development Team   *May 2022 – Jan 2024*

- Designed and implemented a spectroscopy set up using a monochromator which provides information on the trap density in the EPC FET
- Modeled the EPC lidar chip system using finite element simulation software and provided intuition for modifications to minimize the inductance in the IC
- Designed and assembled heat sinks in an iterative process for reliability testing
- Developed hardware including 3D printing components and software including a GUI for a Raspberry Pi controlled near-infrared camera inspection system to find emission hot spots from failed devices

Intelligent Autonomy Lab – Abraham Group   **New Haven, CT**
Undergraduate Researcher   *Aug. 2022 - Present*

- Developed control algorithm for a robotic hand to play Für Elise on the piano.
- Designed and implemented control algorithm for a combined robotic hand and arm system, with user control
- Constructed drones used in a pending publication for research on a Mulit-agent Ergodic search system

Reed Lab   **New Haven, CT**
Undergraduate Researcher   *Oct. 2020 – Nov. 2021*

- Published "A Comparative Analysis of Microelectrode Topologies for electrochemical Oxygen Sensing in biomedical Applications" in *MDPI micromachines* on a nanotech oxygen probe
- Combined oxygen probe with pressure probe in a single multiprobe device to minimize the risk of secondary injury caused by invasively of multiple probes during neurosurgery.
- Presented my publication at MRS (Material Research Society) Spring 2022 Conference

ACTIVITIES

Mechatronics Lab   **New Haven, CT**
Teaching Assistant   *Jan. 2024 - Present*

- Worked as a teaching assistant for the mechatronics lab course, guiding students along with their projects

Code Haven   **New Haven, CT**
Volunteer   *Dec. 2021 – Aug. 2022*

- Worked with a team of Yale students to teach underprivileged kids in the New Haven area Scratch programming to inspire their interest in Computer Science

Club Soccer Yale University   **New Haven, CT**
President   *May. 2022 – Present*

- Elected President of the Yale men's club soccer team

YOSE   **Los Angeles, CA**
Volunteer   *Aug. 2021 – Mar. 2023*

- Worked with underprivileged kids in the LA area, taking them on hikes and teaching them about nature to inspire interest in science

MATE Robotics   **South Pasadena, CA**
Co-Founder and Organizer   *June 2018 – April 2022*

- Co-Founded the South Pasadena Aquatics Robotics Klub (SPARK). We built an underwater ROV and placed 3rd in the regional championship. Continued to mentor younger teams after graduating.

Caltech Community Science Academy   **Pasadena, CA**
Summer Student   *June 2016 – July 2019*

- Created a sensor that could identify if milk had spoiled by the use of a polymer whose resistance changes as it swells in the presence of lactic acid. An Arduino microcontroller operated the detection system.

SKILLS & ACCOLADES

Engineering: COMSOL, MATLAB, LabVIEW, optimal control, circuit design, soldering, welding, 3D-printing
Computer Programming: Python, C, C++, Assembly (x86 and MIPS)
Projects: South Pasadena Rose Parade Float