

Evan Z. A. Strittmatter

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EDUCATION

Yale University

Bachelor of Science

- Electrical Engineering and Computer Science; Certificate in Energy Studies

New Haven, CT

May 2024

GPA: 3.72

PROFESSIONAL EXPERIENCE

Intelligent Autonomy Lab – Abraham Group

Undergraduate Researcher

- Leverage bio-inspired behaviors to design a control algorithm for object classification and manipulation by a robotic hand
- Constructed drones used in a pending publication for research on a Multi-agent Ergodic search system.

New Haven, CT

Aug. 2022 – Present

Efficient Power Conversion

Summer Intern Research and Development Team

- Modeled the EPC LIDAR chip system using finite element simulation software to minimize inductance in the IC
- Designed and created heat sinks to enable reliability testing, and measured their effectiveness using thermocouples on components under voltage and temperature stress
- 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

El Segundo, CA

May 2022 – Aug. 2022

Reed Lab

Undergraduate Researcher

- Published “A Comparative Analysis of Microelectrode Topologies for electrochemical Oxygen Sensing in biomedical Applications” in *MDPI micromachines* on a nanotech oxygen probe with applications for quality control in water production, environmental monitoring, or clinical applications i.e. neurosurgery;
- Combined oxygen probe with pressure probe in a single multiprobe device to minimize the risk of secondary injury caused by invasivity of multiple probes during neurosurgery
- Conducted experimental research to design and innovate a microfluidic spiral separator for separating white blood cells from the blood sample
- Presented my publication at MRS (Material Research Society) Spring 2022 Conference

New Haven, CT

Oct. 2020 – Nov. 2021

ACTIVITIES

Code Haven

Volunteer

- Worked with a team of Yale students to teach underprivileged kids in the New Haven area scratch programming to inspire their interest in the computer science field

New Haven, CT

Dec. 2021 – Aug. 2022

Club Soccer Yale University

President

- Elected President of the Yale men’s Club soccer team

New Haven, CT

May 2022 - Present

YOSE

Volunteer

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

Los Angeles, CA

Aug. 2021 - Present

MATE Robotics

Founder and Organizer

- 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

South Pasadena, CA

June 2018 – April 2022

Caltech Community Science Academy

Summer Student

- 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

Pasadena, CA

June 2016 – July 2019

SKILLS & ACCOLADES

Engineering: COMSOL, MATLAB, VERILOG, circuit design soldering, welding 3D-printing, completed multiple projects with Arduino and Raspberry Pis

Computer Programming: C, C++, Python, Java, Assembly (x86 and MIPS)

Projects: South Pasadena Rose Parade Float (2018-present)