

Fullerton, CA
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Troy Lee

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Education

Santa Barbara, CA	University of California, Santa Barbara	Sep 2017 Jun 2021
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- BS in Computer Engineering.

Leadership

Fundraising Chair	Zeta Phi Rho (ZΦP)	2019 – Present
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- Initiated communication with local business/organization owners for fundraising/philanthropy
- Organized Events: COVID-19 Instagram Fundraiser, Stussy Brand Clothing Sale, Old Town Goleta Clean-up, Adopt-a-Block volunteer, etc.

Web Development Officer	Institute of Electrical and Electronics Engineers	2017 – 2019
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- Assisted in implementing QoL improvements to UCSB IEEE website through html/css
- Employed club resources: tech talks, workshops, and collaborative hardware projects

Projects

- **Astro** | Top-down Space Shooter | Constructed: an independent game produced using the Godot Engine, Implemented: computer logic, object physics, user interface, animations, sound mapping, Skills Required: GDScript, Website: <https://and-one.itch.io/astro>
- **Hoverquad** | Bluetooth-controlled quadcopter | Performed PWM configuration for motor control with accelerometer and gyroscope, Skills Required: Soldering, Arduino Programming, Assembly
- **Gomoku AI** | Artificially Intelligent Gomoku Player | Implemented mini-maxing algorithm with alpha-beta pruning and custom heuristic function, Skills Required: C++, Machine Learning/AI
- **S-Ring** | Mock Product Development and Company Pitching | Conceptualized an automotive for space debris cleanup in a 40-page research paper, Skills Required: Technical Research

Technical Skills

- Languages: C++, MATLAB, GDScript (Godot), JAVA, HTML/CSS, C, Python, CAD
- Concepts: Machine Learning/AI, Data Structures & Algorithms, Sensor/Peripheral Interface Design
- Miscellaneous: Video Editing, Microsoft Excel

Awards

- **NSLS Nomination** (The National Society of Leadership and Success) 2018
- **College of Engineering (COE) Honors Program w/ Dean's Honor** (UCSB) Maintained a cumulative GPA of 3.5 or higher. Fall 2017, Winter 2018, Winter 2020
- **Orange County Board of Supervisors Award** (County of Orange) Recognized by the County of Orange for outstanding dedication and contribution to the lives of others and the community at large through community service and leadership. 2016