

# Brent Lee

brent\_lee@berkeley.edu | Torrance, CA | (657) 731-5221

LinkedIn: [www.linkedin.com/in/brent-lee-165806247](https://www.linkedin.com/in/brent-lee-165806247) | Website: <https://overlordpro-sys.github.io>

Dedicated and tenacious engineering student with a passion for electronics and machine autonomy/intelligence. Seeking an internship/part-time position to apply my problem-solving and hands-on experience, with a focus on working toward a career involving PCB design, embedded systems, or AI-driven applications in computer engineering

## EDUCATION

<b>University of California, Berkeley</b> BA: Electrical Engineering & Computer Science Relevant Coursework: CS 61A, EECS 16A, Math 53	May 2028
<b>Valencia High School, Placentia</b> International Baccalaureate (IB) & ValTech (technology) Diploma – 4.76 GPA	Jun 2024

## SKILLS

**Languages & Frameworks:** Python, Java, C++, C#, Javascript, HTML, CSS, Bootstrap, Vue.js  
**Tools & Platforms:** Azure Cloud Services, Git, Jupyter Notebook, Linux, KiCad, SOLIDWORKS/Fusion 360  
**Specialized Skills:** Cybersecurity, Machine Learning (Pytorch), Computer Vision (OpenCV)  
**Soft Skills:** Communication of complex/technical topics, comfortable working independently and collaboratively

## HIGHLIGHTED EXPERIENCE & PROJECTS

<b>Software Development Intern</b> - Parsec Automation Corp.   Yorba Linda, CA	Jun 2023 – Jul 2023
<ul style="list-style-type: none"><li>Implemented <b>Azure cloud services</b> into TrakSYS web app for functionality/scalability using <b>C#</b> and <b>Javascript</b></li><li>Prototyped Optical Character Recognition (OCR) to eliminate data entry errors for clients</li><li>Assessed <b>AI language model</b> use with database access to improve user database search and access experience</li></ul>	
<b>Project: Custom 'Arduino Micro' Mechanical Keyboard</b>	Jan 2022 – Aug 2022
<ul style="list-style-type: none"><li>Learned inner workings of mechanical keyboard and keyboard matrix functionality</li><li>Used <b>KiCAD</b> to design printed circuit board (PCB) schematic and layout</li><li>Interacted with vendors to laser cut stainless steel plate and used <b>C</b> for <b>Arduino</b> firmware</li></ul>	
<b>Project: OpenCV Aim Automation</b>	Apr 2022 – Sep 2022
<ul style="list-style-type: none"><li>Developed <b>Python</b> script to autonomously track and hit targets in non-competitive mode of AimLabs aim trainer</li><li>Attempted <b>TensorFlow object detection</b>, creating script to create additional training data with pretrained model</li><li>Used <b>OpenCV</b> to process image frames and color segmentation to isolate and detect targets</li></ul>	

## LEADERSHIP & EXTRACURRICULARS

<b>Valencia Robotics Team 4470</b> Programming Lead	Aug 2023 – Jun 2024
<ul style="list-style-type: none"><li>Directed a <b>10-member</b> programming team; researched, developed, &amp; troubleshooted <b>PID</b> telescopic arm, pneumatic and motorized feeder, and vision systems for 2023/2024 FIRST Robotics Competition</li><li>Coordinated with mechanical/electrical teams ensuring <b>100%</b> compatibility with hardware, sensors, and systems</li><li>Oversaw project planning/task allocation, delivering competition-ready robot in <b>one month</b> &amp; secured SoCal Showdown 2023 regional <b>2nd</b> place finish</li></ul>	
<b>Valencia E-Sports Club</b> President	Aug 2022 – Jun 2024
<ul style="list-style-type: none"><li>Fostered a <b>60+ member</b> gaming community by organizing fundraisers and an annual Smash tournament, raising over <b>\$200</b> and increasing engagement</li><li>Supervised and assigned tasks to a <b>10-person board</b>, managing competitive teams across 5 different titles and hosting monthly social meetings</li><li>Collaborated with faculty to secure approval for <b>six figure</b> cost dedicated gaming room</li></ul>	
<b>Valencia Cyber Security Club</b> Vice President	Aug 2023 – Jun 2024
<ul style="list-style-type: none"><li>Managed weekly meetings for <b>70+ members</b>, organized speaker panels and mentored in <b>Linux</b> administration</li><li>Led competition team to platinum tier finish in CyberPatriot competition &amp; <b>3rd</b> place finish in annual SoCal Cyber Cup CTF Challenge</li><li>Worked with club president to delegate responsibilities to <b>8-member board</b> to organize for events and competitions</li></ul>	