

Anderson Lam

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Work Experiences

Qualcomm Swarm Lab, Berkeley, CA

January 2023 - Present

UC Berkeley EECS Student Researcher

- Pioneered advancements in soil temperature testing by co-developing paper-thin LIG sensors with UC Berkeley & UC Davis researchers.
- Enhanced the accuracy of soil monitoring by experimenting with and analyzing data from printed sensors on agricultural peat soil samples.
- Improved agricultural sensor performance by overseeing the deployment and testing of printed sensors on corn farms across various climates.

Bayer Crop Science, Kansas City, MO

May 2024 – August 2024

Process Control Technology (PCT) Plant Engineer Intern

- Boosted procurement efficiency by 250% by automating the entry of over 600 chemical plant equipment into SAP with custom VBA scripts.
- Elevated data accessibility and user experience for 700+ Bayer employees by creating a responsive Bayer Kansas City Analytics Hub.
- Enhanced operator safety by conducting comprehensive research and proposing a specific type of industrial limit switch to PCT engineer.

Aerodyne Group, Cyberjaya, Malaysia

May 2023 – August 2023

Product Management and Development Intern

- Catalyzed Aerodyne's strategic initiative in firefighting technology by proposing and presenting a comprehensive drone implementation plan, supported by an in-depth market research study including feasibility analysis, market sizing, case studies, and global statistics.
- Enhanced Global Solution Department's product team's strategic decision-making by conducting competitor analysis, optimizing market positioning, and refining the feature/pricing structure of Unmanned Traffic Management (UTM) compilation.
- Empowered users with informed recommendations by researching over 80 drone models and compiling their detailed specifications.

Advansia Sdn Bhd, Selangor, Malaysia

January 2021 – May 2023

Future Tech Research & Engineering Seasonal Intern

- Spearheaded a collaboration with Agritix, leading to the development of an innovative software application that enhances agricultural support.
- Improved operational safety of drones by expertly assembling them, repairing technical damages, and resolving overheating battery issues.
- Advanced precision agriculture practices by gathering and analyzing data during farm visits, emphasizing sensor and IoTs utilization.

Dalmax Hardware Sdn Bhd, Selangor, Malaysia

December 2019 – March 2020

Inventory Control and Warehouse Operation Intern

- Streamlined warehouse operations by meticulously inspecting deliveries for damage or discrepancies, ensuring efficient stocking and packing.
- Enhanced inventory accuracy by maintaining records of shipments, creating inventory adjustment logs, and efficiently restocking supplies.
- Optimized business operations by integrating logistics with sales, order management, accounting, and shipping systems, while managing and improving the online web store's dashboard and SEO performance.

Skills, Engineering, CS Projects

- **Skills:** Microfabrication, Mechanical Assembly and Testing, P&ID, CAD, SAP, C++, Python, SQL, WiX Editor, Electrical Wiring, Figma, 3D Printing & Design, Embedded Systems, Bluebeam, MS Office, PI Vision, Google Suite, Email Marketing, Graphic Design, Video Editing
- **EE Projects:** Flexible Thermistors, Autonomous Micromouse, Agricultural and FPV Drones, Resistive & Capacitive Touchscreen, Self-Balancing Robot Car, Single & Multi-Pixel Scanning Camera, Voice Interactive Control & 3D Mapping Navigation Robot
- **CS Projects:** Competitive Typing Program, Tower Defense Game, Fantasy Role-Playing Game, 2D World Game, Hog Dice Game, Scheme Language Interpreter, Details Sorting Program, Nutritional Calculator, Password Generator, Interactive Currency Converter

Education

University of California, Berkeley, CA

August 2022 - Present

Bachelor of Science Degree in Electrical Engineering & Computer Sciences, Certificate in Entrepreneurship & Technology & Growth Marketing

Courses: Microfabrication Technology, Designing Information Devices and Systems, Data Structures, Signals & Systems, International Business

Honors: BMoE Demo Day Champion 2023, ORCA Innovation Grant Award 2023, 3rd Place SCET Collider Cup XII, SCET Best TA Award 2023

Foothill-De Anza Community College, Los Altos Hills, CA

April 2020 - June 2022

Associate of Science Degree in Engineering, Physics, Mathematics, Physics for Transfer, Mathematics for Transfer

GPA: **3.81**

Honors: High Honors, VIDA & DASG Student Leadership Award 2022, Foothill Academic Senate Award 2022, Foothill Academic Achievement Award 2022, Emerging Leader Award 2021, STEM Division Achievement Award 2021, Language Arts Division Achievement Award 2020

Activities/Leadership

Founder of International Students Connection (ISC), San Francisco Bay Area, CA

April 2021 – Present

- Established a supportive network for 600+ international students by leading a team of 80 ISC Board Officers and expanding the organization to six universities across San Francisco Bay Area including UC Berkeley, fostering a 'home away from home' environment for students.
- Strengthened community ties by collaborating with ISP office advisors and coordinators to host and promote events, while also planning and organizing activities with on-campus diversity and multicultural student clubs.

Languages

- **Languages:** Fluent in English, Mother Tongue in Malay, and Chinese Mandarin