

LANCE TANINGCO

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EDUCATION

California State Polytechnic University, Pomona

Aug 2023 - May 2027

GPA: 3.68

- Bachelor of Science, Electrical Engineering

Relevant Coursework:

- Circuit Analysis, Signals & Systems, Power Engineering, Microcontrollers, Digital Logic Design, Microelectronics, Data Structures & Algorithms, Systems Programming
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EXPERIENCE

Student Activities Assistant

Jan 2025 - Present

Associated Students, Inc., Cal Poly Pomona

- Coordinated and executed 10+ campus events serving 250-5000 people that promote student well-being, community, and engagement
- Collaborated with vendors, facilities, and artists to ensure engaging activities, and smooth logistics under tight deadlines

Peer Mentor

July 2024 - Feb 2025

Division of Student Affairs, Cal Poly Pomona

- Mentored eight first-year students; 100% retained through their first academic year through weekly support sessions and goal-setting meetings
- Advanced campus equity efforts and retention initiatives for men of color through culturally responsive mentorship and community building

Google Kapwa Mentorship Program

August 2024 - Dec 2024

Mentee

- Selected for a competitive mentorship program aimed at increasing Filipino representation in tech
- Gained insight into career development, technical growth, and workplace culture through 1:1 mentorship and workshops with Google professionals

Consultant

Jan 2024 - April 2024

IXL Digital Growth Accelerator 2024

- Consulted with a small business in facilitating 20% growth for their company via social media promotion and new sales initiatives
 - Constructed plans of action and presented weekly in front of marketing professionals and peers
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PROJECTS

Northrop Grumman Collaboration Project - Systems Engineering Team

2025 – Present

- Contributing to the design and development of an unmanned ground vehicle (UGV) using a model-based systems engineering (MBSE) approach
- Supporting the software team with requirements analysis, risk assessment, and project documentation in alignment with DoDAF standards

BANSHEE UAV (Battery As Integrated Structural High Endurance Experimental Unmanned Aerial Vehicle)

2025 – Present

Electrical Member, Robotics Team

- Collaborating on the design of a self-sustaining UAV equipped with a robotic arm for autonomous battery reloading
- Utilizing ROS for hardware–software integration, debugging, and testing of robotic ground station

Bronco Bond Mobile Application

2023 - 2024

- Built backend infrastructure using Node.js to support user authentication, data storage, and real-time interactions for a campus-exclusive social platform
 - Integrated MongoDB and web scraping tools for efficient data gathering
 - Presented at the 2024 Bronco Startup Challenge through the Projects Hatchery program
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STUDENT INVOLVEMENT

CPP Baja SAE, Electrical Team Member

2025 - Present

Kellogg Honors College

2024 - Present

President, Secretary, CPP Sportsfest

2024 - Present

- Coordinated logistics and team communications for CPP's largest student-led cultural sports tournament
 - Managed scheduling, venue reservations, and volunteer assignments to ensure smooth event execution for over 150 participants
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SKILLS

Hardware: Circuit Design, Arduino, PCB Design, Oscilloscopes, Multimeters

Software: MATLAB, PSpice, KiCad, C/C++, MPLAB, Python, Java, Linux, Microsoft Office