

Julia Wong

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Education

B.S. Electrical Engineering University of California – Santa Cruz	Santa Cruz, California Expected June 2026
Pembroke Summer Programme University of Cambridge	Cambridge, England July 2023 – August 2023

Selected Coursework

- ECE 218: Mechatronics
- ECE 171: Analog Electronics
- ECE 141: Feedback Control Systems
- ECE 121: Microcontroller System Design
- XECN 129S: Industrial Organization

Experience

Corporate Finance Intern Armory Consulting Co.	Irvine, California December 2024 – Present
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- Analyze financial statements and conduct data analytics to support forensic accounting investigations.
- Review creditor claims and calculate distribution payments to ensure accurate settlements.
- Assist with budgeting and financial projections to guide business decision-making.

Undergraduate Electrical Engineering Intern Honeywell International Inc.	Mason, Ohio June 2024 – December 2024
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- Researched product lines to identify replacement parts for legacy components and improve life cycles.
- Developed diagnostic test kits, reducing Divert Control Module evaluation time by 83%.
- Utilized oscilloscopes and specialized equipment to assess switch timing and document precise data.
- Addressed client system issues through technical site visits, improving operations.

Undergraduate Research Lead – Wireless Signal Processing Laboratory University of California – Santa Cruz	Santa Cruz, California March 2024 – Present
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- Lead a team in prototyping a wearable ECG classification device and driving project milestones.
- Develop CNN-to-SNN pipelines in PyTorch with threshold-balancing for energy-efficient real-time inference.
- Enhance diagnostic accuracy with digital signal processing to extract and optimize features from waveforms.

Undergraduate Research Assistant – Machine Learning and Intelligence Laboratory University of California – Santa Cruz	Santa Cruz, California June 2025 – Present
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- Deliver weekly presentations, communicating results and next steps to guide technical decision-making.
- Apply PyTorch-based models to process CT datasets (TIGRE, RibSeg, GaSpCT) for reconstruction and analysis.

Startup Consultant Pinpoint AVL LLC	Santa Cruz, California September 2022 – June 2025
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- Designed hardware (circuit boards, enclosures) for transit tracking systems (AVL, APC, custom headsigs).
- Analyzed vehicle-tracking data (GeoJSON) to improve routing efficiency and reduce downtime.

Administrator and Project Coordinator Slugbotics	Santa Cruz, California September 2022 – June 2024
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- Fabricated components and assembled the combat robot *Gigabyte* for BattleBots World Championship VII.
- Organized and facilitated events, managing communication between students, faculty, and external universities.

Objective

Electrical Engineering graduate with a strong foundation in signal processing, machine learning, and embedded prototyping, seeking entry-level roles that bridge product development, systems thinking, and cross-functional collaboration to deliver practical, scalable solutions.

Skills

- **Software Tools:** AutoCAD, Eagle, Fusion 360, Inventor, LTspice, Microsoft 365, SolidWorks, Tableau, Trello, Vivado
- **Languages:** C, C++, HTML, MATLAB, Python, SystemVerilog
- **Soft Skills:** Adaptability, Communication, Creativity,
- **Development Practices:** Agile, Proof-of-Concept, Scrum