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## Education

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**University of California, Santa Cruz**, Santa Cruz, CA  
M.S. Electrical & Computer Engineering (Robotics)  
B.S. Robotics Engineering, with Honors  
Minor: Electrical Engineering

Sept 2024–Jun 2025  
Sept 2019–Jun 2024

## Technical Skills

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**Programming:** Python, C, C++, MATLAB, Verilog, Git  
**ML/CV:** TensorFlow, PyTorch, OpenCV, CNNs, Object Detection  
**Robotics:** ROS, PID Control, Kalman Filtering, Mechatronics, Pneumatics  
**Modeling:** SolidWorks, Onshape, NX CAD, COMSOL, UAV Control  
**Electronics:** KiCad, Circuit Design, Signal Processing  
**Prototyping:** FDM/SLA 3D Printing, Laser Cutting, Welding  
**Languages:** English, Mandarin

## Experience

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### Electrical Mechanical Engineering Specialist

Jun 2025–Present

Braingeneers, Santa Cruz

*Supported bioelectronics research through PCB design, and simulation development.*

- Optimized electroceutical PCBs, increasing efficiency by 75%.
- Conducted parametric studies in COMSOL, improving electrode design.
- Collaborated with multidisciplinary teams to meet milestones.
- Resolved engineering challenges, improving system performance.

### Lab Technician

Dec 2024–Jun 2025

Baskin Engineering Laboratory Services (BELS), Santa Cruz, CA

*Enhanced prototyping workflows and trained staff and researchers in advanced fabrication tools.*

- Standardized 3D printer & laser-cutter protocols; increased safety/throughput by 30%.
- Trained entry-level engineers; reduced failed prints by 25%.
- Built sensor calibration tools; cut measurement error by 15% across 20+ projects.

### UCSC Rocket Team Graduate Technical Advisor

Aug 2024–Jun 2025

Santa Cruz, CA

*Advised on mechanical and electrical design for competition-level rocketry projects.*

- Optimized mechanical components, improving performance by 20%.
- Enhanced power distribution, reducing system weight by 100g.
- Guided fin and capstan design, reducing assembly time by 15%.

### Researcher (Soft Robotics)

Jun 2023–Aug 2023; Jan 2024–Aug 2024

Tactile Manipulation Laboratory

*Developed system identification models and closed-loop controllers for soft robotic actuators.*

- Identified ARMAX model; designed PID for fluid-elastic actuator, improving tracking by 40–43%.
- Prototyped silicone end-effectors and test rigs; boosted experiment throughput by 25–30%.

### ECE118 Mechatronics Tutor

Jun 2024–Aug 2024

University of California, Santa Cruz

*Mentored and supported students through robotics design labs and final projects.*

- Tutored 90+ students, improving project success by 20%.
- Mentored in robotics, reducing system design errors by 15%.

## Projects

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**Robotics & Controls:** Soft Robotics PID (+40% precision); Robot Arm Control (Jacobian planner, +30% efficiency); Autonomous Robot (navigation system, +25% accuracy); D.O.R.A UAV simulation.

**Embedded Systems:** Verilog VGA Game (HW/SW integration); STM32 Bluetooth (+20% connectivity); Auto-Ranging Flashlight (LiDAR-based).

**Computer Vision:** Fake Coin Detector (98% accuracy with CNN/OpenCV).

## Coursework

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Robot Kinematics & Dynamics, Feedback Control Systems, Mechatronics, Bioelectronics, UAV Systems, Microcontroller Design, Linear Dynamical Systems, Kalman Filters, System Identification, Sensing & Sensors, Analog Electronics, Convex Optimization, Capstone & Thesis in Robotics