Samuel Phan

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Education

University of California, Irvine Expected June 2027
B.S. Electrical Engineering, GPA: 3.51/4.00

- *Relevant Coursework*: Circuit Analysis II, Discrete Time-Signals & Systems, Intro to Digital Logic Design Lab

Foothill College June 2025
Electrical Engineering Transfer, GPA: 3.82/4.00

Projects

Arctos 6-Axis Robotic Arm Jan 2026 – Present

- Initiated project management for a team of 7 members using Notion to plan and manage 3D printing schedules, parts inventory, and build progress
- Will assemble a 600 mm tall robotic arm with 3D printed parts and a custom end effector
- Will program the Arduino Mega with Arctos Studio/ROS2 to interface with sensors, motors, and control electronics

Custom Ender 3 V2 Jan 2025 – Jun 2025

- Boosted print speed 5x over stock performance by modifying a Creality Ender 3 V2 with upgraded hotend, extruder, and mainboard
- Enabled remote monitoring and zero downtime by integrating a Raspberry Pi running Klipper firmware
- Designed mounts using CAD for an auto bed-leveling sensor, upgraded heater, and additional cooling fans

Dart IO Nike Generator Feb 2021 – Apr 2021

- Developed a browser automation tool in Go to mass-generate Nike accounts, increasing raffle entry success compared to manual entry methods
- Reduced total account generation time by 10x using Go's concurrency features
- Ensured 100% account uniqueness by integrating proxy rotation and SMS API verification.

Experience

Founder, SP Logistics – San Jose, CA Oct 2019 – Dec 2024

- Founded and scaled an online arbitrage business by sourcing and reselling limited, high-demand products, generating over $120,000 in total sales
- Leveraged data analytics to optimize pricing strategies and maximize profit margins
- Built automation tools in Python that cut inventory sourcing time by 40%
- Collaborated with a network of sellers to share insights and strategies that improved collective sales outcomes

Extracurriculars

NASA Community College Aerospace Scholars (NCAS) Missions 1 & 2 Jan 2025 – Apr 2025

- Led research on mechanical systems and mobility solutions for a simulated lunar base, contributing to a team design reviewed by NASA staff
- Advised team during meetings and provided feedback on budget decisions
- Completed a 5-week online curriculum on NASA missions and STEM career pathways

Skills

Design Tools: LTspice, Vivado, KiCad (Schematics/PCB Design), Microsoft Visual Studio, CAD, GitHub
Programming: C++, Verilog, Python, Go, MATLAB, LaTeX
Embedded Systems: Arduino, Raspberry Pi, ESP8266
Lab Equipment: Oscilloscope, Function Generator, Multimeter, Soldering