# Aram Dergevorkian

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In https://www.linkedin.com/in/aram-dergevorkian

### Education

## University of California, Los Angeles

June 2024

M.S. Electrical Engineering

Los Angeles, California December 2020

California State Polytechnic University, Pomona

B.S. Electrical Engineering

Pomona, California

President's List, Dean's List, K6CPP Amateur Radio Club President

# **Experience**

# **Amazon Web Services Center for Quantum Computing**

December 2024 - Present

Mixed Signal Design Engineer

Pasadena, California

Designing and building next generation control hardware for Quantum Computing.

### Luminavolt LLC

October 2022 - Present

Owner

Pasadena, California

- Design and assembly of custom animatronic control systems, providing on-site support such as PID control system tuning, animatronic show programming, lighting design and programming, PLC programming, and audio mixing.
- Custom embedded systems development for commercial products.

# NASA Jet Propulsion Laboratory

Summer 2016 - November 2024

Electronics Engineer

Pasadena, California

- Designed and delivered several FPGA/uC/uP based systems for a variety of space flight instruments.
- Prototyped novel embedded systems architectures, working on hardware, embedded software, and RTL aspects.
- Designed and built power supplies for instruments. Performed MIL-STD-461G EMI/EMC testing.

# **Columbus Technologies and Services**

January 2021 - August 2021

Electronics Engineer

Pasadena, California

 Developed instrument electronics for PREFIRE CubeSat. Work involved PCB design, embedded software and RTL development, ground support hardware/software development, and testing/documentation.

# La Cañada Flintridge Tournament of Roses Association

Summer 2011 - Spring 2019

Electronics, Construction Team, Board of Directors

La Cañada Flintridge, California

 Responsibilities varied from electronics to hydraulic/mechanical construction. Specific projects include complete design and assembly of a new animatronic control system, and building a data logger for the float's hydrostatic drive.

### **Artistic Entertainment Services**

January 2017 - October 2018

Electrical Engineer

Azusa, California

- Responsible for the production of TwinkleWorks LED fixtures and LED controllers.
- Developed new series of RGBW LED fixtures and laid the foundation for future RGBW LED strobe controllers.

# **UCLA ELFIN CubeSat Project**

Summer 2015 - Spring 2016

**Communications Subsystem Intern** 

Los Angeles, California

Tested the spacecraft's AstroDev radios, built and tested communications equipment with Earth Station team.

# **Projects**

- Designed and built several custom industrial equipment controllers using CAN bus and lighting industry standard protocols (DMX-512, WS2812B, etc.) for automotive and man-portable applications.
- Designed and built an array of control electronics for the Los Angeles Live Steamers Railroad Museum's signalling system using CAN bus and wireless mesh networking.
- Built a variety of radio related electronics, including amplifiers, antennas, and Bluetooth audio and telemetry interfaces. Built ARM based quadrature DSP processor for SoftRock SDR receiver.

# **Technical Skills**

Languages: Verilog, C (ARM, AVR, PIC), XC (XMOS), Assembly (x86, 68000, 6502, PIC), Python, MATLAB Software: Altium, KiCAD, HyperLynx, Vivado, iCEcube2, uVision, MPLAB, VS Code, SolidWorks, Siemens LOGO!, **PCMACS**