

Aram Dergevorkian

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Education	University of California, Los Angeles M.S. Electrical Engineering California State Polytechnic University, Pomona B.S. Electrical Engineering <i>President's List / Dean's List</i>	Anticipated 2025 GPA: 3.6 Dec 2020 <i>1 Term / 7 Terms</i>
Awards	Foundation for Amateur Radio	<i>8 Scholarships, 2016-2019</i>
Experience	<p>Jet Propulsion Laboratory (Summer 2016 - Present) Electronics Engineer - Electronics Technology Group (August 2021 - Present) Currently developing digital backend electronics for MEM (Microwave Electrojet Magnetogram) instrument. Work involves flight hardware design/testing, support hardware/software development, and systems engineering. Electrical Engineer - Columbus Technologies and Services (January 2021 - August 2021) Developed instrument electronics for PREFIRE (Polar Radiant Energy in the Far-InfraRed Experiment) CubeSat. Work involved PCB design, verilog and software design, ground support hardware/software development, and testing/documentation. Intern (Summer 2016, 2017, 2018, Year-round 2019-2021) Investigated usefulness of Synopsys Symphony Model Compiler for use in radio science applications. Implemented real-time instrument controller with precision motor control capabilities aimed at CubeSat and SmallSat applications. Refined motor electronics and designed new command and data handling board for use on PREFIRE.</p> <p>UCLA ELFIN CubeSat Project (Summer 2015 - Spring 2016) Intern - Communications Subsystem Tested the spacecraft's AstroDev He-100 prototype, and He-82 flight radios. Designed and manufactured several PCBs and adapters for the interface and testing of radio equipment. Assisted the earth station team in building and setting up communications equipment.</p> <p>Artistic Entertainment Services (January 2017 - October 2018) Electrical Engineer 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 controllers.</p> <p>La Cañada Flintridge Tournament of Roses Association (Summer 2011 - Spring 2019) Construction Team, Board of Directors Responsibilities varied from electronics to hydraulic/mechanical construction. Specific projects include building a data logger for the float's hydrostatic drive system, and complete redesign and assembly of a new hydraulic and pneumatic animation system.</p>	
Projects	Built a variety of radio related electronics, including microphones, bluetooth and android phone radio interfaces, amplifiers, antennas. Built computer independent processor for quadrature DSP to be used with a SoftRock SDR kit as well as a custom modular SDR receiver. Designed and built vehicle accessory control interfaces with CAN bus integration.	
Programming	Verilog, C (ARM, AVR, PIC), XC (XMO5), Assembly (x86, 68000, 6502, PIC), Python	
Software	Altium, Vivado, iCEcube2, uVision, MPLAB, xTIMEcomposer, MATLAB, VS Code, LabVIEW	