David A. James

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Education	**University of California: Los Angeles, 2019** GPA: 3.03		
	Degrees: B.S. Mathematics of Computation		
	Hermanos Unidos; Triangle Fraternity for Engineers, Architects, and Scientists		
	College of the Canyons GPA 3.55		
	Degrees: Associates in Mathematics, Assoscates in Physics		

Skills	*Programming:* C++, Python, JAVA LATEX, Matlab, JavaScript, HTML, CSS	**Relevant Coursework**	Math 142: Mathematical Modeling
			Math 164: Optimization
	Applied Maths: Mathematical Modeling, Numerical Methods, Optimization		EPS SCI 136: Applied Geophysics
			Physics 105: Mechanics
	Other: Tutoring, Project Management, Staff Management, Public Speaking, Soldering, Milling, Machining, Lab experience, Microsoft Office		Physics 110: Electricity and Magnetism
			CS 31: Computer Science I
			CS 32: Computer Science II

Project Experience

Rapid: Blue Dawn CubeSat Mission

Title: Assembly, Integration, & Testing Engineer   June 2018 - Present

Project: Team is working on developing a CubeSat that will be launching on Blue Origin's New Shepard rocket

- Write and review 'safe-to-mate' procedures
- Assemble and check the integrity of the components
- Test any problems that arise on the design, and troubleshoot for solutions

LA Hacks 2018

Title: Full Stack Developer   March 2018

Project: Team developed an arduino compass hooked up to a skateboard that would connect to a given destination from a website

- Designed back end of the website using JavaScript, so that the arduino had GPS coordinates given to it
- Designed simple front end for the website using HTML, so that user could input destination
- Assisted team members with design of arduino, so that it would gather data, and output an accurate heading correctly

NASA High Altitude Student Platform: Electrostatic Cosmic Dust Collector [ECDC]

Title: Systems Engineer   Fall 2015 - Fall 2017

Project: Team developed a device to place on the HASP to collect particles from celestial showers.

- Modelled systems and possible scenarios the ECDC will go through during flight, so that the team would know design requirements
- Researched corona discharge to optimize the electrostatic dust collection

Work Experience

Institute of Transportation   June 2018 - Present

Title: IT Assistant

- assisted in building computers for the ITS department along with setting up connections and machines for the Lewis Center
- Help maintain the web servers under and fix any bugs that may arise

College of the Canyons   September 2014 - June 2016

Title: MESA Tutor/ Workshop Facilitator/ Math and Science Tutor

- Assisted students in mathematical or scientific homework or questions
- Lead Academic Excellence Workshops in the MESA Center

High Pressure Technologies LLC   May 2011 - July 2011

Title: Machine Shop Intern

- Assisted machinist with pressure system repair
- Surveyed systems at other businesses
- Learned machining and workshop environment

Leadership Experience	**UCLA CalGeo**	**Clubs/ Interests**	California Geotechnical Engineering Association [CalGeo]
	Community Service Chair Fall 2017-Spring 2018		Muay Thai
	• Planned community service events		Salsa Club
	• Planned public outreach events		
	Astronomy and Physics Club		
	President Fall 2015-Spring 2018		
	• Started and manged club events		
	• Wrote budget proposals		