

David A. James

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Education	University of California: Los Angeles, 2019 GPA: 3.03 <i>Degrees:</i> B.S. Mathematics of Computation with a Minor in Geophysics and Planetary Physics <i>Organizations:</i> Hermanos Unidos; Triangle Fraternity for Engineers, Architects, and Scientists College of the Canyons GPA 3.55 <i>Degrees:</i> Associates in Mathematics, Associates in Physics		
Skills	<i>Programming:</i> C++, Python, JAVA \LaTeX , Matlab, JavaScript, HTML, CSS <i>Applied Maths:</i> Mathematical Modeling, Numerical Methods, Optimization <i>Other:</i> Tutoring, Project Management, Staff Management, Public Speaking, Soldering, Milling, Machining, Lab experience, Microsoft Office	Relevant Coursework	Math 142: Mathematical Modeling Math 164: Optimization EPS SCI 136: Applied Geophysics Physics 105: Mechanics Physics 110: Electricity and Magnetism CS 31: Computer Science I CS 32: Computer Science II
Project Experience	Rapid: Blue Dawn CubeSat Mission <i>Title:</i> Assembly, Integration, & Testing Engineer June 2018 - Present <i>Project:</i> Team is working on developing a CubeSat that will be launching on Blue Origin's New Shepard rocket <ul style="list-style-type: none"> • 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 <i>Title:</i> Full Stack Developer March 2018 <i>Project:</i> Team developed an arduino compass hooked up to a skateboard that would connect to a given destination from a website <ul style="list-style-type: none"> • 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] <i>Title:</i> Systems Engineer Fall 2015 - Fall 2017 <i>Project:</i> Team developed a device to place on the HASP to collect particles from celestial showers. <ul style="list-style-type: none"> • 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 <i>Title:</i> IT Assistant <ul style="list-style-type: none"> • 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 - Present <i>Title:</i> MESA Tutor/ Workshop Facilitator/ Math and Science Tutor <ul style="list-style-type: none"> • 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 <i>Title:</i> Machine Shop Intern <ul style="list-style-type: none"> • Assisted machinist with pressure system repair • Surveyed systems at other businesses • Learned machining and workshop environment 		
Leadership Experience	UCLA CalGeo <i>Community Service Chair</i> Fall 2017-Spring 2018 <ul style="list-style-type: none"> • Planned community service events • Planned public outreach events Astronomy and Physics Club <i>President</i> Fall 2015-Spring 2018 <ul style="list-style-type: none"> • Started and managed club events • Wrote budget proposals 	Clubs/ Interests	California Geotechnical Engineering Association [CalGeo] Muay Thai Salsa Club