

David A. James

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Education	University of California: Los Angeles, 2019 <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, L ^A T _E X, Matlab, JavaScript <i>Applied Maths:</i> Mathematical Modeling, Numerical Methods, Optimization, Algorithms <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 – http://bruinspace.com/projects/rapid.html <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 assembly, safe-to-mate, and functional procedures • Test procedures for errors and accuracy on design • Test magneto-hydrodynamic pump extensively to ensure design was safe to fly Idea Hacks 2019 – https://github.com/DJ-2805/muscleBot <i>Title:</i> Data Analyst January 2019 <i>Project:</i> Team designed RC Car that moved based off of hand motion and muscle detection <ul style="list-style-type: none"> • Calibrated muscle sensor to recognize EM pulses to turn on/off RC Car • Calibrated hand motion, so that acceleration data would move the car in correct motion • Assisted in circuit design of RC Car and hookup of hardware to devices LA Hacks 2018 – https://github.com/ryanmjacobs/4sk8 <i>Title:</i> Full Stack Developer March 2018 <i>Project:</i> Team developed an Arduino compass hooked up to a skateboard that would receive heading from external website <ul style="list-style-type: none"> • Designed back end of the website using JavaScript, so that Arduino received GPS coordinates • Designed simple front-end for the website using HTML, so that user could input destination • Assisted team members with design, so that it would gather data, and output an accurate heading 		
Work Experience	UCLA: Institute of Transportation Studies June 2018 - Present <i>Title:</i> IT Assistant <ul style="list-style-type: none"> • Built computers for the ITS Department • Setup network and connections along with cleaning machines for Lewis Department • Help maintain web servers • Troubleshoot any technical problems or tasks that arise within the department College of the Canyons: MESA Center September 2014 - Present <i>Title:</i> MESA Tutor/ Workshop Facilitator/ Math and Science Tutor <ul style="list-style-type: none"> • Assisted students in STEM homework and answered extra questions pertaining to theory they studied • Lead Academic Excellence Workshops in the MESA Center • Physics Academic Workshop showed a GPA increase of 0.2 with my students and an average of 1 letter grade up over students not in workshop 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 • Tested pressure systems at external locations to ensure safety and upkeep • Machined fittings for pressure systems 		
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	