

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 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
Research Experience	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 DataFest 2017 <i>Title:</i> Data Analysis May 2017 <i>Project:</i> Team developed a machine learning algorithm to determine purchase pattern of algorithms <ul style="list-style-type: none"> Extracted data, so that team can work with smaller sets Analyzed data via matrices to confirm machine algorithm was accurate Created presentation to present results to audience and judges NASA High Altitude Student Platform: Electrostatic Cosmic Dust Collector [ECDC] <i>Title:</i> Systems Engineer Fall 2016 - Fall 2017 <i>Project:</i> Team developed an optimized device to place on the HASP to collect particles from celestial showers. <ul style="list-style-type: none"> Researched corona discharge to optimize the electrostatic dust collection NASA High Altitude Student Platform: Electrostatic Cosmic Dust Collector [ECDC] <i>Title:</i> Systems Engineer Fall 2015 - Fall 2016 <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 	
Work Experience	College of the Canyons September 2014 - June 2016 <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 Gentle Ride Ambulance May 2014 - Decemeber 2014 <i>Title:</i> EMT-B <ul style="list-style-type: none"> Patient care such as vitals, assessments, medical interventions Giving and taking medical history reports 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 manged club events Wrote budget proposals 	Clubs/ Interests California Geotechnical Engineering Association [CalGeo] BruinSpace Society of Physics Students [SPS] American Physical Society [APS] American Chemical Society [ACS] Mathematics, Engineering, Science Achievment [MESA] Salsa Club