

# David A. James

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github.com/DJ-2805  
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<b>Education</b>	<b>University of California: Los Angeles, 2019</b> <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 <b>College of the Canyons</b> GPA 3.55 <i>Degrees:</i> Associates in Mathematics, Associates in Physics		
<b>Skills</b>	<i>Programming:</i> C++, Python, L <sup>A</sup> T <sub>E</sub> 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	<b>Relevant Coursework</b>	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
<b>Project Experience</b>	<b>Rapid: Blue Dawn CubeSat Mission – <a href="http://bruinspace.com/projects/rapid.html">http://bruinspace.com/projects/rapid.html</a></b> <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"> <li>• Write and review 'safe-to-mate' procedures</li> <li>• Assemble and check the integrity of the components</li> <li>• Test any problems that arise on the design, and troubleshoot for solutions</li> </ul> <b>Idea Hacks 2019 – <a href="https://github.com/DJ-2805/muscleBot">https://github.com/DJ-2805/muscleBot</a></b> <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"> <li>• Calibrated muscle sensor to recognize EM pulses to turn on/off RC Car</li> <li>• Calibrated hand motion, so that acceleration data would move the car in correct motion</li> <li>• Assisted in circuit design of RC Car and hookup of hardware to devices</li> </ul> <b>LA Hacks 2018 – <a href="https://github.com/ryanmjacobs/4sk8">https://github.com/ryanmjacobs/4sk8</a></b> <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"> <li>• Designed back end of the website using JavaScript, so that the arduino had GPS coordinates given to it</li> <li>• Designed simple front end for the website using HTML, so that user could input destination</li> <li>• Assisted team members with design of arduino, so that it would gather data, and output an accurate heading correctly</li> </ul>		
<b>Work Experience</b>	<b>Institute of Transportation</b> June 2018 - Present <i>Title:</i> IT Assistant <ul style="list-style-type: none"> <li>• assisted in building computers for the ITS department along with setting up connections and machines for the Lewis Center</li> <li>• Help maintain the web servers under and fix any bugs that may arise</li> </ul> <b>College of the Canyons</b> September 2014 - Present <i>Title:</i> MESA Tutor/ Workshop Facilitator/ Math and Science Tutor <ul style="list-style-type: none"> <li>• Assisted students in mathematical or scientific homework or questions</li> <li>• Lead Academic Excellence Workshops in the MESA Center</li> </ul> <b>High Pressure Technologies LLC</b> May 2011 - July 2011 <i>Title:</i> Machine Shop Intern <ul style="list-style-type: none"> <li>• Assisted machinist with pressure system repair</li> <li>• Surveyed systems at other businesses</li> <li>• Learned machining and workshop environment</li> </ul>		
<b>Leadership Experience</b>	<b>UCLA CalGeo</b> <i>Community Service Chair</i> Fall 2017-Spring 2018 <ul style="list-style-type: none"> <li>• Planned community service events</li> <li>• Planned public outreach events</li> </ul> <b>Astronomy and Physics Club</b> <i>President</i> Fall 2015-Spring 2018 <ul style="list-style-type: none"> <li>• Started and managed club events</li> <li>• Wrote budget proposals</li> </ul>	<b>Clubs/ Interests</b>	California Geotechnical Engineering Association [CalGeo] Muay Thai Salsa Club