

## Alan French

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<b>EDUCATION</b>	<b>Carnegie Mellon University</b> , Pittsburgh, PA <i>Bachelor of Science</i> , Mechanical Engineering Overall GPA: 3.4	May 2019
<b>PROJECTS</b>	<b>Walking Robot</b> <ul style="list-style-type: none"><li>Designed and constructed a small robot to complete obstacle courses</li><li>Worked in groups of four to complete project in two weeks</li><li>Laser cut custom gears and designed a customized coupler curve</li></ul> <b>Mechanical Gripper</b> <ul style="list-style-type: none"><li>Designed a device with a 325 g mass to grasp 2.5 kg object</li><li>Used a two-gear system to generate necessary torque</li><li>Applied carbon fiber layups on the arms to prevent deflection</li></ul> <b>Astronaut's Coatrack</b> <ul style="list-style-type: none"><li>Designed an 8 g acrylic bracket to support a 40 lb weight</li><li>Reduced mass by 68% from initial to final design</li></ul> <b>Crane Project</b> <ul style="list-style-type: none"><li>Constructed an aluminum crane to fit geometric constraints</li><li>Lifted one pound 3.5 using 16 oz. of aluminum</li></ul> <b>Term Project: ConLang Program</b> <ul style="list-style-type: none"><li>Used Python to design a utility for creating constructed languages</li><li>Implemented capability to set grammar rules and automatically translate</li><li>Stored vocabulary in a SQL database</li></ul>	Fall 2017  Fall 2017  Fall 2017  Spring 2017  Spring 2016
<b>SKILLS</b>	<b>Languages:</b> MatLab, SolidWorks, Python, MS Office, SQL, L <sup>A</sup> T <sub>E</sub> X. <b>Machines:</b> 3D Printer, Mill, Lathe, Bandsaw, Laser Cutter, Drill Press <b>Instruments:</b> Guitar (16 years), Bass (10 years), Tin Whistle (2 years)	
<b>WORK EXPERIENCE</b>	<b>Desk Services Attendant</b> Carnegie Mellon Housing Services <ul style="list-style-type: none"><li>Provide freshman residents of 6 dorms with housing information</li><li>Maintain housing facilities when necessary</li></ul> <b>Data Entry Intern</b> 101 Edu. <ul style="list-style-type: none"><li>Helped create a database of over 2,000 chemistry professors</li><li>Modified mouse hotkeys to accelerate process</li></ul>	Fall 2015 - present  Summer 2017
<b>LEADERSHIP</b>	<b>Club President</b> Roller Hockey Club <ul style="list-style-type: none"><li>Organize practices, schedule practices and games</li><li>Manage the finances for the organization; budget over \$6,000</li></ul> <b>Club Treasurer and Captain</b> Rugby Club <ul style="list-style-type: none"><li>Manage finances for the organization; budget over \$9,000</li><li>Help run practices and teach rugby fundamentals to newcomers</li></ul>	Fall 2015 - Spring 2018  Fall 2015 - Spring 2018