

Alan French

Cell: (347) 675-1276
afrench@andrew.cmu.edu

alanfrench.github.io
www.linkedin.com/in/alan-french

EDUCATION	Carnegie Mellon University , Pittsburgh, PA <i>Bachelor of Science</i> , Mechanical Engineering Overall GPA: 3.4	May 2019
RELEVANT EXPERIENCE	Research Assistant, Robotics Lab NYU Tandon School of Engineering <ul style="list-style-type: none">• Wrote a Python app to track objects and distances with kinect• Created a SolidWorks model of a complex 12-piece robotic arm• Used Dynamixel SDK to write a Python class for motor control• Integrated app with robotic assembly to avoid obstacles in real time	Summer 2018
PROJECTS	Walking Robot <ul style="list-style-type: none">• Designed and constructed a small robot to complete obstacle courses• Worked in groups of four to complete project in two weeks• Laser cut custom gears and designed a customized coupler curve Mechanical Gripper <ul style="list-style-type: none">• Created a device with a 325 g mass to grasp 2.5 kg object• Designed and machined a custom gearbox to generate necessary torque Astronaut's Coatrack <ul style="list-style-type: none">• Designed an 8 g acrylic bracket to support a 40 lb weight• Reduced mass by 68% from initial to final design Crane Project <ul style="list-style-type: none">• Constructed an aluminum crane to fit geometric constraints• Lifted one pound 3.5 using 16 oz. of aluminum	Fall 2017 Fall 2017 Fall 2017 Spring 2017
SKILLS	Languages: Python, SolidWorks, ROS, MatLab, SQL, L ^A T _E X Machines: 3D Printer, Laser Cutter, Mill, Lathe Musical Instruments: Guitar (17 years), Bass (11 years), Tin Whistle (3 years)	
ADDITIONAL EXPERIENCE	Desk Services Attendant Carnegie Mellon Housing Services <ul style="list-style-type: none">• Provide freshman residents of 6 dorms with housing information• Maintain housing facilities on an as-needed basis Data Entry Intern 101 Edu. <ul style="list-style-type: none">• Helped create a database of over 2,000 chemistry professors• Wrote custom hotkeys to accelerate the process	Fall 2015 - present Summer 2017
LEADERSHIP	Club President Hockey Club <ul style="list-style-type: none">• Organized practices, schedule practices and games• Managed the finances for the organization; budget over \$6,000 Club Treasurer and Captain Rugby Club <ul style="list-style-type: none">• Managed finances for the organization; budget over \$9,000• Helped run practices and teach rugby fundamentals to new players	Fall 2015 - Spring 2018 Fall 2015 - Spring 2018