

EDUCATION

Carnegie Mellon University	Pittsburgh, PA	May 2023
<ul style="list-style-type: none">B.S. Computer Science, Minors in Robotics and Media DesignCumulative GPA: 3.74Relevant courses: Imperative Computation, Functional Programming, Computer Systems, Theoretical Computer Science, Parallel & Sequential Data Structures & Algorithms, Robot Kinematics & Dynamics, Feedback Control		
Lynbrook High, Valedictorian	San Jose, CA	June 2019

EMPLOYMENT

Automation Controls Engineering Intern	Tesla, Inc.	summer 2021
<ul style="list-style-type: none">Helped bring a pilot production line to the start of production by developing machine controls with PLC ladder logic, interfacing with the Manufacturing Execution System, and designing HMIs (Human-Machine Interfaces)		
Teaching Assistant	Carnegie Mellon University	spring, summers 1&2 2020
<ul style="list-style-type: none">Worked with other 15-112: Fundamentals of Programming and Computer Science course staff to teach recitations, labs, and review sessions, hold office hours and hackathons, and mentor students through their term projects		
Assistant Instructor	Galileo Learning	summer 2019
<ul style="list-style-type: none">Worked with instructors to teach kids to make projects with 3D digital animation and IOS development		
Teaching Assistant	Digital Media Academy	summer 2018
<ul style="list-style-type: none">Worked with instructors to teach kids coding/AI concepts, robotics, digital animation, and electronics		

PROJECTS

Cardistry Dashboard web app (2021). Python (Flask), JavaScript (React), SQL
<ul style="list-style-type: none">Tracks cardistry (playing card flourishing) moves learned in a database hosted by Microsoft AzureUses a Markov chain to generate suggested move combinations based on desired sequence parametersUses the YouTube Data API for displaying recommended tutorials based on properties of moves currently learned
ELM (Enrich, Learn, Motivate) app (2020). Java (Android Studio)
<ul style="list-style-type: none">Manages a database and instantly connects tutees with tutors for any subject through a video call session
Square Jumper platformer game (2019). Python OpenCV
<ul style="list-style-type: none">Uses computer vision color detection for game interaction and modified Dijkstra's algorithm for enemy pathfinding

SKILLS

Proficient: Python, C, Standard ML, ladder logic (Allen-Bradley), HMI programming (Ignition)
Basic: MATLAB, Java, C++, SQL

ADDITIONAL ACTIVITIES & AWARDS

Research Assistant	CMU Biorobotics Lab	2020-present
<ul style="list-style-type: none">Using MATLAB to develop a directional compliance strategy for autonomous snake robot locomotion		
Hardware Lead & Software Member	CMU RoboClub	2019-present
<ul style="list-style-type: none">Designing and building a robotically played ukulele using ArduinoProcessing data from computer vision detecting physical conducting		
Team Member	CMU Sweepstakes Team	2019-present
<ul style="list-style-type: none">Helping to construct new buggies (unmotorized carbon fiber vehicles) and maintain past buggies for races		
Mechanical & Animation Director	FIRST Robotics	2015-2019
<ul style="list-style-type: none">2016-19 Regional Chairman's Award Winner, 2019 Regional WinnerLed a team to design and build an elevator mechanism for the robot to climb onto an elevated platform		
Carnegie Mellon University School of Computer Science Dean's List		fall 2019
NCWIT Award for Aspirations in Computing National Honorable Mention & Affiliate Award		2019