

Lydia Xing

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EDUCATION

Carnegie Mellon School of Computer Science

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Pittsburgh, PA

Expected May 2022

SKILLS

Proficient: Javascript/ES6, Python, Java, React, Express, Mongoose, jQuery, AJAX, Node, Git, CSS

Some experience with: React Native, AngularJS, Android Studio, Arduino

EXPERIENCE

Horizons School of Technology

SUMMER IMMERSIVE PROGRAM STUDENT, FULL SCHOLARSHIP RECIPIENT

San Francisco, CA

Jun 2018 - Aug 2018

- Learned and applied full-stack web development skills including web security, deployment, and principles of scaling through hands-on exercises and projects

MIT Beaver Works RACECAR

STUDENT

Cambridge, MA

Jul 2017 - Aug 2017

- Used ROS and OpenCV to implement various control systems such as PID, pure pursuit, and local/global potential field controllers on miniature autonomous cars in Python

ACTIVITIES/INTERESTS

CubeRover

FLIGHT SOFTWARE TEAM MEMBER

Pittsburgh, PA

Sep 2018 - Present

- Part of flight software team of 2-kg lunar rover which will be sent to the moon in 2020
- Gaining familiarity with F-Prime and FreeRTOS and experience with C++

Carnegie Mellon Racing

ENERGETICS TEAM MEMBER

Pittsburgh, PA

Sep 2018 - Present

- Collaborating with another junior team member to implement regenerative braking on an electric racecar's firmware in C++

FIRST Robotics Team 125 - NUTRONS

STUDENT PROGRAMMING LEAD, ROBOT OPERATOR, CHAIRMAN'S PRESENTER

Boston, MA

Sep 2015 - Feb 2018

- Division champions at St. Louis World Championship 2017, finished 4th overall at St. Louis World Championship 2017
- Implemented PID controllers for self-correcting driving and used OpenCV for autonomous computer vision targeting

MetroHacks

CO-SPONSORSHIP DIRECTOR

Boston, MA

Sep 2017 - Jun 2018

- Managed budgeting and branding for largest high school hackathon in New England
- Secured sponsorship from Quantopian and Twilio

PROJECTS

Carnegie Cupid - HACKCMU GSK CATEGORY 1ST PLACE, TEAM PROJECT

- Web app using real-time sentiment analysis on voice-to-text transcript and webcam machine learning to determine if your date is interested in you. Worked on API integration, voice-to-text transcription, and frontend
- Used Microsoft's Custom Vision AI and Text Analysis API, Google Web Speech API

Online Vision Therapy - HORIZONS HACKATHON HONORABLE MENTION, INDIVIDUAL PROJECT

- Used Webgazer.js to track eyes/provide real-time feedback and CSS animations to create eye exercises such as saccades, pursuits, etc.

AWARDS

National Center for Women in Technology MA, Society of Women Engineers High Honors, 2017-2018
SpaceX FIRST Alumni Scholarship, Raytheon FIRST Scholarship, FRC Rhode Island District Dean's List