

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: Python, Javascript, Java, React, Express, Mongoose, jQuery, AJAX, Node, Git

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

EXPERIENCE

Horizons School of Technology

SUMMER IMMERSIVE PROGRAM STUDENT

San Francisco, CA

June, 2018 - August, 2018

- Recipient of Horizons full scholarship
- Learned and applied full-stack web development skills including web security, deployment, and principles of scaling through hands-on exercises
- Logged over 280+ hours of coding time

MIT Beaver Works RACECAR

STUDENT

Cambridge, MA

July, 2017 - August, 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
- Learned fundamentals of computer vision, principles of localization and pose estimation

Brookline Lego Robotics Program

FOUNDER, DIRECTOR

Brookline, MA

June, 2016 - June, 2018

- Taught students to use Lego Mindstorms and Arduinos
- Founded two FIRST Lego League teams, serving 20 middle school students
- Secured space, recruited and trained instructors and volunteers, designed curriculum and daily agendas
- Ran pilot summer workshop and raised funds for FIRST Lego League teams, waiving fees for students in need
- Teams won Strategy and Innovation award at 2016 Revere FLL Qualifier

ACTIVITIES/INTERESTS

FIRST Robotics Team 125 - NUTRONS

STUDENT PROGRAMMING LEAD

Boston, MA

September 2015 - February, 2018

- Division champions at St. Louis World Championship 2017, finished 4th overall at St. Louis World Championship 2017
- Rhode Island District Dean's List Award recipient
- Developed Android trajectory app that won team Innovation in Control Award at 2016 Arizona Regional
- Implemented PID controllers for self-correcting and computer vision targeting
- Selected as robot operator based on commitment and technical ability
- Conducted Chairman's award presentations
- Over 1,200+ total hours

MetroHacks

CO-SPONSORSHIP DIRECTOR

Boston, MA

September 2017 - June, 2018

AWARDS

Honors: National Center for Women in Technology MA winner, Society of Women Engineers High Honors, 2017-2018 SpaceX FIRST Alumni Scholarship recipient, Raytheon FIRST Scholarship recipient