

Lydia Xing

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EDUCATION

Brookline High School

Year of graduation: 2018

GPA: 3.91/4.0 (unweighted)

Honors: National Honor Society, National Merit Commended, NCWIT Massachusetts winner, Brookline Youth Recognition Award, St. Michael's College book award

SKILLS

Proficient: Java

Some experience with: Javascript, AngularJS, Python, Android Studio, Git, Bash

INTERESTS/ACTIVITIES

FIRST Robotics Team 125 - NUTRONS: programming lead September 2015 – present

- Division champions at St. Louis World Championship 2017, finished 4th overall at St. Louis World Championship 2017
- Rhode Island District Dean's List
- Developed Android trajectory app that won team Innovation in Control Award at Arizona Regional, 2016
- 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 Board: co-director of sponsorship September 2017 – present

- Contacted companies for funding and partnerships, applied to community grants
- Managed branding and budgeting

Computer Science Club: founder, captain September 2016 – present

Math Team: captain September 2014 – present

Brookline Teen Center: Makerspace Committee member September 2016 – present

- Transformed old garage space at Brookline Teen Center into a makerspace

EXPERIENCE

Brookline Middle School Robotics Program Brookline, MA

Founder, Director, June 2016 – present

- Created first community lego robotics program in Brookline
- Taught students to use Lego robots and Arduinos
- Founded two First Lego League teams, serving 20 middle school students
 - Won Strategy and Innovation award at 2016 Revere FLL Qualifier
- Ran pilot summer workshop and raised funds for First Lego League teams, waiving fees for students in need
- Secured space, developed curriculum and daily agendas
- Recruited and trained instructors and volunteers
- Over 120+ total hours

MIT Beaver Works RACECAR Cambridge, MA

Student, July 2017 - August 2017

- Gained experience in ROS, Gazebo, OpenCV
- Learned about various control systems: PID, pure pursuit, Monte Carlo localization, local and global potential field controllers, AR tracking, and principles of localization and pose estimation
- Won best safety controller and 3rd place in Grand Prix