Lydia Xing

Boston, MA
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EDUCATION
Brookline High School
- Year of graduation: 2018

INTERESTS/ACTIVITIES
- FIRST Robotics Team 125 - NUTRONS: programming captain   September 2015 – present
    - 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
    - Robot ranked #18 worldwide in 2016, #12 worldwide in 2017
    - Carson Division champions at St. Louis World Championship 2017
    - One of two Dean's List Award nominees
    - Robot operator/drive team
    - Conducted Chairman's award presentations
- MetroHacks Board: co-director of sponsorship   September 2017 – present
    - Contacted companies for funding, managed branding and budgeting for largest New England high school hackathon
- MIT Launch Club: founder, captain   September 2017 – present
- Computer Science Club: founder, captain   September 2016 – present
- Math Team: captain   September 2014 – present
- Brookline Teen Center: Makerspace Committee member   September 2016 – present
- BHS Advanced Chamber Orchestra: 2nd violin section leader   September 2017 – present
- Brookline High School Orchestra: violinist   September 2014 – present

EXPERIENCE
Founder, Director, June 2016 — present
Brookline Middle School Robotics Program, Brookline, MA
- Recruited and trained volunteers
- Secured space, funding, developed curriculum and daily agendas
- Taught students to use Lego robots and Arduinos
- Ran pilot summer workshop and raised funding for First Lego League teams
- Founded two First Lego League teams, serving 20 kids total
    - Won Strategy and Innovation award at 2016 Revere FLL Qualifier
- First community lego robotics program
- Waivered fees for students in need

Student, July 2017 - August 2017
MIT Beaverworks RACECAR, Cambridge, MA
- 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

AWARDS
- 2017 Brookline Youth Recognition Award
- 2017 Rhode Island District Dean's List winner
- 2017 NCWIT Massachusetts winner
- 2017 St. Michael's College book award winner