Lydia Xing

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EDUCATION
Brookline High School
- Year of graduation: 2018

INTERESTS/ACTIVITIES
- FIRST Robotics Team 125 - NUTRONS: programming co-captain, team co-captain, driver September 2015 – present
  - Conducted presentation for Chairman's Award
  - Developed Android trajectory app that won team Innovation in Control Award at Arizona Regional, 2016
  - Recorded educational lego robotics videos for community organization, the Latino STEM Alliance
  - Organized Brookline demos, represented team at Northeastern Orientation Fairs
  - One of two Dean's List Award nominees
  - Created lessons and trained new students in Java
  - Robot operator and robot vision sub-team lead in 2017
  - 2016 scouting co-captain
- MetroHacks Board: co-director of sponsorship   September 2017 – present
  - Contacted companies for funding, managed branding and budgeting for MetroHacks
- 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
  - Transformed old garage space at Brookline Teen Center into a makerspace
  - Collaborated with other members of Makerspace to create network of engineers/computing students in Brookline
- BHS Advanced Chamber Orchestra: principal 2nd violinist   September 2017 – present
- Brookline High School Orchestra: violinist   September 2014 – present
- NEC Youth Repertoire Orchestra: violinist   September 2015 – 2016
- NEC Junior Repertoire Orchestra: violinist   September 2014 – 2015

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

Tutor, October 2015 – present
Brookline Tutor Mentor Program, Brookline, MA
- Tutored socioeconomically disadvantaged Brookline elementary school kids in need of help in schoolwork, mathematics, and programming.
- Provided ongoing free violin lessons

Student, July 2017 - August 2017
MIT Beaverworks RACECAR, Boston, 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 Dean's List Nominee
- 2017 Rhode Island District Dean's List winner
- 2017 NCWIT Massachusetts winner
- 2017 St. Michael's College book award winner
- 2015, 2016 Grand Concours French National Exam – Gold Medal