

# 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, 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 Rhode Island District Dean's List winner
- 2017 NCWIT Massachusetts winner
- 2017 St. Michael's College book award winner