

# Blake McHale

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## EDUCATION

### Northeastern University, Boston, MA

Candidate for Bachelor of Science in Electrical and Computer Engineering

Expected May 2022

Minor in Biomedical Engineering

Current GPA: 3.89

Relevant Courses: Physics II, Calculus III, Differential Equations, Embedded Robotics, Biology, Biomedical Circuits and Signals, Fundamentals of Networks

Activities: AIAA NUAU (Outreach Coordinator/Project Lead), AIAA NASA, Northeastern Undergraduate Researches of Neuroscience, Colleges Against Cancer

Awards: Dean's Scholarship, Dean's List

### Ledyard High School, Ledyard, CT

GPA: 5.00 June 2017

Honors: Bausch and Lomb Science Award, National Honor Society, CIAC Scholar Athlete, AP Scholar with Distinction

Activities: Eagle Scout (June 2015), National Honor Society (Vice President), Palestra (President), Varsity Soccer, Tennis, Indoor Track, Yale Physics Olympics Team, FIRST Robotics, Final Cut (Acapella)

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## SKILLS

**Computer Applications:** SolidWorks, AutoCAD, Inventor, Excel, and Access

**Programming:** C++, Python, Java, VBA | Familiar with MATLAB, HTML, CSS, VBA, and SQL

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## WORK EXPERIENCE

### Supervisory of Shipbuilding Groton, Groton, CT

Summer 2018

Student Trainee (Office Automation)

- ⦿ Developed, designed, optimized, and secured database containing PII with SQL and VBA
- ⦿ Wrote programs that helped optimize flow of NOFORN, confidential, and unofficial documents
- ⦿ Attended arrangement meetings and engaged with engineers discussing systems on the submarines

### Northeastern ECE Research, Boston, MA

Fall 2018 - Present

Research Assistant

- ⦿ Developing a mobile application using React Native that will provide a user interface for an Alzheimer's detection sensor

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## PROJECTS

### AIAA – NUAU Delta5 Race Timer

Fall 2018 - Present

Project Lead

- ⦿ Designing, soldering, and coding race timer for competitive drone racing
- ⦿ Leading students through wiring and coding of system

### Cornerstone of Engineering II – Maze Game

Spring 2018

Processing, Arduino, SolidWorks

- ⦿ Developed, designed, and tested escape room maze; constructed, coded, and wired controller for maze

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## VOLUNTEER EXPERIENCE

### Palestra, Ledyard High School, Ledyard, CT

Fall 2015 – Spring 2017

President

- ⦿ Race Director for the *Colonel Classic 5k for Conor* (organized and managed donations from businesses for the event, raised \$7000, also created a scholarship fund)

### Backus Hospital, Norwich, CT

Summers 2015 - 2017

Junior Volunteer

- ⦿ Transported patients to and from procedures; delivered lab samples and postal mail
- ⦿ Shadowed dosimetry, endoscopy, and emergency room doctor

### Rotary Youth Leadership Awards

Spring 2016 - Fall 2016

Facilitator

- ⦿ Planned and marketed for the leadership conference; sponsored competition to start a non-profit
- ⦿ Won competition with "To Bee or Not to Bee" (an organization to raise awareness about the diminishing bee population and implementing a bee hive at Ledyard High School)

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## INTERESTS

Enjoy soccer, basketball, tennis, running, hiking, climbing, singing, and playing guitar