

# Steven Wu

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## EDUCATION

**Carnegie Mellon University** – Pittsburgh, PA

Bachelor of Science in Computer Science, expected May 2023

Technical Skills: Java • C/C++ • ROBOTC • ROS • Robotics • XML • SML • GitHub • Linux • Windows • Swift

## WORK EXPERIENCE & VOLUNTEER SERVICE

**NASA Johnson Space Center, Houston, TX**

*Jun 2019 – Aug 2019*

*Summer Robotics Academy Intern*

- Collaborated with NASA robotics engineers and professional bomb technicians through the Combating Terrorism Technical Support Office (CTTSO) Bomb Tech Workshop
- Familiarized an international audience of bomb technicians with robotics design and repair
- Built stair- and ladder-climbing robots to accomplish bomb detection and threat recognition tasks

**Clear Creek Independent School District, League City, TX**

*Elementary School VEX IQ Robotics Team Mentor*

*Sep 2016 – Jan 2019*

- Guided elementary school robotics teams through full engineering design process over a 6-month competition season
- Taught 4<sup>th</sup>/5<sup>th</sup> graders how to brainstorm, communicate effectively, test prototypes, and develop a successful robot

*Summer Robotics Camp Instructor*

*Jun 2017 – Aug 2017, Jun 2018*

- Instructed middle school students on engineering principles and oversaw creation of a competitive robot throughout a 1-week district summer camp

## PROJECTS

**MoonRanger (Group)**

*Jan 2020 – Present*

*Software Documentation Lead, Navigation Programmer*

- Developed navigation software and organized GitHub workflows for ice-finding moon rover mission led by Red Whittaker

**Beacon: Democratized Disaster Response (Group)**

*Sep 2019*

- Designed location-tracking iOS app with Xcode for natural disasters to coordinate local rescue operations
- Created during PennApps XX, a hackathon at the University of Pennsylvania

## EXTRACURRICULAR ACTIVITIES

**FIRST Robotics Competition – FRC Team 118 The Robonauts**

*Jan 2016 – Apr 2019*

*Public Outreach Coordinator, Software Programmer*

- Organized outreach events to introduce robotics and STEM to students in our local community
- Wrote and debugged C++/XML for vision systems and autonomous routines under mentorship from NASA engineers

**VEX Robotics Competition**

*Sep 2016 – Apr 2018*

*Team Captain, Software Lead, Drive Coach*

- Managed 6 team members to efficiently utilize time and resources to construct an effective robot
- Negotiated and revised strategies with alliance partners before and during matches

**Mu Alpha Theta/Math National Honor Society**

*Aug 2015 – May 2019*

*President, University Interscholastic League (UIL) Team Captain*

- Organized, practiced, and competed in several math competitions throughout the school year
- Advocated student passion for math, generated opportunities for development and recognition through hosting contests

**NASA High School Aerospace Scholars**

*Nov 2017 – Jun 2018*

- Selected through competitive 4-month online course to attend 1-week onsite experience at Johnson Space Center
- Represented Aerospace Scholars program to Texas Rep. John Zerwas to promote benefits of funding STEM education

## AWARDS & ACADEMIC ACHIEVEMENTS

**National Merit Scholarship Award Winner**

*Mar 2019*

**VEX Robotics World Championships First Seed**

*Apr 2018*

**FIRST Robotics Championship Finalist & Division Champion**

*Apr 2017*

**Zero Robotics Virtual Champions**

*Jan 2018*

**International Conference on Environmental Science & Technology (IC EST) 1<sup>st</sup> Place Poster Award**

*Jun 2018*

**Intel International Science & Engineering Fair (ISEF) Finalist**

*May 2019*

- Engineered natural materials to reduce phosphorus to combat algae bloom in polluted aquatic environments
- Presented research to international audience of graduate students and professors