

Eric Zheng

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Education

Carnegie Mellon University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Pittsburgh, PA

Expected May 2023

High Technology High School

HIGH SCHOOL DIPLOMA

Lincroft, NJ

June 2019

Skills and Knowledge

Markup and Programming Languages

C, Python, Java, HTML/CSS/Javascript, L^AT_EX, Haskell

Software Tools and Environments

GNU/Linux, Git, Vim

CAD Modeling and Prototyping

Autodesk Inventor, SolidWorks, 3D Printing

Experience

MITRE Quantum Information Science Group

INTERN

Princeton, NJ

Feb. 2019 - June 2019

- Studied linear algebra and quantum mechanics
- Designed and conducted experiments to measure noise on superconducting quantum computers using Python

Wearable Robotic Systems Laboratory, Stevens Institute of Technology

RESEARCH INTERN

Hoboken, NJ

June 2018 - Aug. 2018

- Worked on haptic joystick with Professor Damiano Zanotto and other students
- Created and implemented tension distribution scheme and joystick prototype

Department of Mechanical Engineering, Tsinghua University

RESEARCH INTERN

Beijing, China

June 2017 - Aug. 2017

- Worked on underactuated robotic grasping project with Professor Wenzeng Zhang
- Designed and prototyped a novel robotic finger in SolidWorks

MATE Underwater Robotics Competition

MECHANICAL LEAD (2017-19)

Marlboro, NJ

Sept. 2016 - June 2019

- Directed mechanics subteam in design, CAD modeling, construction, and documentation of underwater ROV
- Coordinated and typeset technical documentation, which placed 5th at the 2018 international competition

High Tech Academic Team

MEMBER

Lincroft, NJ

Sept. 2015 - June 2019

- Competed in local, state, and national quizbowl tournaments
- Built automated scoring and statistics system for High Tech student-run tournaments

Honors and Awards

2019 **Top 10 Hack, Best Use of Google Cloud**, PennApps Fall 2019

Philadelphia, PA

2019 **Maureen O'Donnell Oxford Classical Dictionary Award**, National Latin Exam

Lincroft, NJ

2019 **1st Place Individual**, New Jersey Science League AP Physics C Competition

Lincroft, NJ

2019 **Special Award for Top CAD**, MATE Regional Underwater Robotics Competition

Villanova, PA

2018 **2nd Place Overall, Ranger Class**, MATE Regional Underwater Robotics Competition

Villanova, PA

2018 **Selected Oral Presenter**, National Junior Science and Humanities Symposium

Hunt Valley, MD

2018 **2nd Place Paper**, Jersey Shore Junior Science Symposium

Toms River, NJ

Publications

- **Zheng, Eric** and Zhang, Wenzeng, 2018. "An underactuated PASA finger capable of perfectly linear motion with compensatory displacement". *The Journal of Mechanisms and Robotics* **11**(1) [doi: [10.1115/1.4041786](https://doi.org/10.1115/1.4041786)]