

Eric Zheng

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Education

Carnegie Mellon University *Pittsburgh, PA*
B.S. IN COMPUTER SCIENCE (GPA: 4.0) *Expected May 2023*

High Technology High School *Lincroft, NJ*
HIGH SCHOOL DIPLOMA *June 2019*

Skills and Knowledge

Skills C, Python, Java, HTML/CSS/Javascript, \LaTeX , Haskell, Git, Autodesk Inventor

Coursework Principles of Imperative Computation (15-122), Great Ideas in Theoretical Computer Science (15-251)

Experience

MITRE Quantum Information Science Group *Princeton, NJ*
INTERN *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 *Hoboken, NJ*
RESEARCH INTERN *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 *Beijing, China*
RESEARCH INTERN *June 2017 - Aug. 2017*

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

High Tech Academic Team *Lincroft, NJ*
MEMBER *Sept. 2015 - June 2019*

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

Projects

Speak into Space (PennApps Fall 2019) *Philadelphia, PA*
FULL STACK DEVELOPER *Sept. 2019*

- Worked on backend and frontend for a lip-reading web application
- Interfaced Flask application with Tensorflow model
- Awards: **Top 10 Hack, Best Use of Google Cloud**

MATE Underwater Robotics Competition *Marlboro, NJ*
MECHANICAL LEAD (2017-19) *Sept. 2016 - June 2019*

- Directed mechanics subteam in CAD modeling, construction, and documentation of underwater ROV
- Designed ROV frame structure, actuators, and waterproofing system
- Awards: **Special Award for Top CAD, 2nd Place Overall**

Honors

2019	Maureen O'Donnell Oxford Classical Dictionary Award , National Latin Exam	<i>Lincroft, NJ</i>
2019	1st Place Individual , New Jersey Science League AP Physics C Competition	<i>Lincroft, NJ</i>
2018	Selected Oral Presenter , National Junior Science and Humanities Symposium	<i>Hunt Valley, MD</i>
2018	2nd Place Paper , Jersey Shore Junior Science Symposium	<i>Toms River, NJ</i>

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)]