

Eric Zheng

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Education

Carnegie Mellon University
B.S. IN COMPUTER SCIENCE

Pittsburgh, PA
Expected 2023

High Technology High School
CLASS OF 2019

Lincroft, NJ
Sept. 2015 - present

Skills and Knowledge

Software and Programming	C, Python, Java, HTML/CSS/Javascript, \LaTeX , Git, GNU/Linux, Haskell
CAD Modeling and Prototyping	Autodesk Inventor, SolidWorks, 3D Printing
Languages	English, Chinese, Latin

Experience

MITRE Quantum Information Science Group
INTERN

Princeton, NJ
Feb. 2019 - present

- Studied linear algebra and quantum mechanics
- Programmed superconducting quantum computers with the IBM Qiskit framework

Wearable Robotic Systems Laboratory, Stevens Institute of Technology
RESEARCH INTERN

Hoboken, NJ
June 2018 - Aug. 2018

- Worked on 2 DOF haptic joystick with Professor Damiano Zanotto and other students at the lab
- Designed and implemented tension distribution scheme and joystick prototype

Department of Mechanical Engineering, Tsinghua University
RESEARCH INTERN

Beijing, China
June 2017 - Aug. 2017

- Designed and prototyped a novel robotic finger while studying in the lab of Professor Wenzeng Zhang
- US utility patent application no. 15831346 under USPTO review

MATE Ranger Class Underwater Robotics Competition
MECHANICAL LEAD | CORRESPONDING SECRETARY

Marlboro, NJ
Sept. 2016 - present

- Corresponding Secretary (2016-17) and Mechanical Lead (2017-19) for independent robotics team composed of local high school students
- Directed mechanics subteam in design, CAD modeling, construction, and documentation of underwater ROV

High Tech Academic Team
MEMBER

Lincroft, NJ
Sept. 2015 - present

- Competed in local, state, and national quizbowl tournaments
- Designed and implemented automated scoresheet system and online hosting for statistics for High Tech student-run tournaments

Honors and Awards

2018	5th Place Technical Documentation, Ranger Class , MATE International Underwater Robotics Competition	<i>Washington, USA</i>
2018	2nd Place Overall, Ranger Class , MATE Regional Underwater Robotics Competition	<i>Pennsylvania, USA</i>
2018	1st Place Technical Documentation, Ranger Class , MATE Regional Underwater Robotics Competition	<i>Pennsylvania, USA</i>
2018	Summa Cum Laude, Gold Medal , National Latin Exam Level III	<i>New Jersey, USA</i>
2018	2nd Place Individual, 2nd Place Team , New Jersey Science League AP Physics I Competition	<i>New Jersey, USA</i>
2018	1st Place , TSA State Convention Engineering Design, Optical Engineering	<i>New Jersey, USA</i>
2018	Selected Oral Presenter , National Junior Science and Humanities Symposium	<i>Maryland, USA</i>
2018	2nd Place Paper, Student Presenter , Jersey Shore Junior Science Symposium	<i>New Jersey, USA</i>
2017	2nd Place Individual, 1st Place Team , New Jersey Science League High School Physics Competition	<i>New Jersey, USA</i>
2017	Summa Cum Laude, Perfect Paper , National Latin Exam Level II	<i>New Jersey, USA</i>
2016	Summa Cum Laude, Perfect Paper , National Latin Exam Level I	<i>New Jersey, USA</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)]