

Gerry Chen

412-956-3047



www.gerrysworld.com



gerry.chen@duke.edu

Education

Duke University

B.S.E. Expected May 2019

Pratt School of Engineering

- Major: Mechanical Engineering
- Minors: Electrical & Computer Engineering + Math
- 3.881 cumulative GPA - 4.0 most recent semester
- Dean's List every semester

Activities

Duke Electric Vehicles

08/2015 to Present

- Produce an electric vehicle from scratch each year to compete in the Shell Eco-Marathon
- Extensive Experience with full production cycle
- Lead of Hydrogen Fuel Cell conversion (6/2017 - present)
- Responsible for high power super-cap control board Design + Manufacture + Testing (9/2017 - present)
- Responsible for Carbon Fiber Insert design + manufacture + installation (8/2016 - 5/2017)

Solar Benches Project Lead

01/2016 to Present

- Augmenting campus benches with solar powered night-time task lighting and laptop/phone chargers
- Lead technical research/design, fund acquisition, and communication with Duke administration
- Prototype and two test benches already installed on campus - more coming with overwhelming support

Work History

Robotics NSF REU Internship

05/2017 to Present

Duke Robotics - Dr. Kris Hauser

- Work done on a Precision Positioning Unit (PPU) for the Tele-Robotic Intelligent Nursing Assistant
- Work done on both standalone and integrated PPU design, placement, and control
- Involvement with Inverse Kinematics, Path Resolution/Planning, and Error Sensing/Readjustment

Peer Tutor

08/2016 to Present

Duke Academic Resource Center

- 1-on-1 and recitation style tutoring in Multivariable Calculus, Linear Algebra, and Differential Equations

Teaching Assistant

08/2016 to present

Duke University

- EGR201 (Mechanics of Statics) - Grading and Office Hours (8/2017 - Present)
- ECE230 (Microelectronics) - Lab and Grading (5/2017 - 12/2017)
- EGR103 (Computational Methods in Engineering) - Lab, Office Hours, and Grading (8/2016 - 12/2016)
- CS201 (Data Structures and Algorithms) - Recitation, Helper Hours, and Grading (8/2016 - 12/2016)

Tutor

08/2015 to 06/2016

America Reads America Counts - Duke University

- Tutored elementary and middle school students alongside school teachers as classroom supplements

Tutor

05/2014 to 08/2016

Kumon Math and Reading Center - 880 Butler St #3, Pittsburgh, PA

- Created personalized learning curricula to maximize motivation and success
- Organized and prepared worksheets
- pre-K to 12 - Counting to Calculus & ABC's to Shakespeare

Skills

- Substantial CAD experience (Solidworks, Autodesk Fusion, Eagle, SPICE)
- Arduino, Atmel, IoT, and PIC experience
- Design, Prototyping, and Machining experience
- Strong command of Python and Matlab
- Proficiency in Java, MATHEMATICA, HTML/CSS, Javascript, Swift, L^AT_EX, "Arduino"
- Knowledge of C, C++, MIPS