

Gerry Chen

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I am highly ambitious and driven by curiosity; always excited to be working on whatever project presents itself regardless of its immediately apparent value. While my set of interests is diverse, I see my future self working in robotics. I'm currently studying at Duke University pursuing undergraduate degrees in **Mechanical Engineering and Electrical & Computer Engineering**.

Education

Duke University, Pratt School of Engineering

B.S.E. Expected May 2019

Major: Mechanical Engineering (Electrical & Computer Engineering minor)

3.851 cumulative GPA

Dean's List every semester thus far

Activities

Solar Benches Project Lead

01/2016 to Present

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

Duke Electric Vehicles

08/2015 to Present

- Produce an electric vehicle from scratch each year to compete in the Shell Eco-Marathon
- Responsible for Carbon Fiber Insert design + manufacture + installation (8/2016 - 5/2017)
- Now leading Hydrogen Fuel Cell conversion (6/2017 - present)

Work History

Robotics NSF REU Internship

05/2017 to Present

Duke Robotics - Dr. Kris Hauser

- Working 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 and 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
- ECE230 (Microelectronics) - Lab and Grading
- EGR103 (Computational Methods in Engineering) - Lab, Office Hours, and Grading
- CS201 (Data Structures and Algorithms) - Recitation, Helper Hours, and Grading

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

- Considerable 3D and 2D CAD experience (Solidworks & Autodesk Suite)
- Strong command of Python and Matlab
- Arduino and PIC experience
- Proficiency in Java, MATHEMATICA, HTML/CSS, Javascript, Swift, L^AT_EX, Arduino
- Design, Prototyping, and Machining experience
- Knowledge of C, C++, MIPS