

Christopher T. Chang

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SUMMARY

Motivated college engineering student looking for a summer internship with a leading company in the field of robotics or mechanical engineering.

EDUCATION

May, 2023

CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA

- Bachelor of Science in Mechanical Engineering, additional major in Robotics
- Relevant coursework: Intro to Mechanical Engineering, Robot Kinematics and Dynamics, Mobile Robot Algorithms, Statics, Thermodynamics
- Overall GPA (4.0/4.0)

EXPERIENCE

Jun '20 – Aug '20

UNIVERSITY OF MINNESOTA

Minneapolis, MN

Undergraduate Research Assistant, School of Physics and Astronomy

- Assisted Dr. Lucy Fortson, UMN Astrophysics, with the Zooniverse project, a citizen science research effort
- Developed a machine classifier to identify real or bogus supernova detections
- Programmed using Python/Tensorflow
- Communicated results to umbrella research group via summarizing presentations

Jun '17 – Aug '19

EDEN PRAIRIE COMMUNITY CENTER

Eden Prairie, MN

Head Lifeguard and Lesson Lead

- Oversaw 7-10 pool and beach lifeguards during regular open swim hours
- Responsible for opening, managing, and closing of aquatics locations
- Leading staff CPR and water rescue training

PROJECTS

Sep '19 – Present

CARNEGIE MELLON RACING CLUB

Pittsburgh, PA

- Designing and building a full electric Formula Student Race Car
- Captain of two force member sub-team of suspension
- Developed, manufactured, and tested carbon fiber suspension links. Designed laser-cut cardboard jigging assembly for chassis welding

Jun '18 – Aug '18

CHRISTMAS LAKE RESTORATION PROJECT

Minneapolis, MN

- Aided Dr. Sallie Sheldon in researching an eco-friendly means of controlling invasive Eurasian Milfoil populations in Christmas Lake
- Collected samples, compiled data, and helped develop effective techniques for capturing and breeding Milfoil-eating insects

SKILLS

Software: Python, Solidworks, MATLAB, Tensorflow, C, Arduino

Hardware: Raspberry Pi, Arduino, Soldering, Protoboard

Fabrication: Lathe, Mill, Laser-cutting, 3D printing, Composites

ACTIVITIES

Sigma Phi Epsilon Fraternity, Fall 2019 – Present

Ultimate Frisbee Club Team, Fall 2019 – Present

HONORS

National Merit Scholar Finalist (2019)

Minnesota All State Swim and Dive Team (2018 and 2019)