

JASON CHEN

jasonchen2021@u.northwestern.edu
www.linkedin.com/in/jasonchen1998
chen2156.github.io

(617)-584-8949
github.com/chen2156

Education

Northwestern University
Master of Science in Robotics

Evanston, IL
December 2021

Purdue University
Bachelor of Science in Computer Engineering

West Lafayette, IN
May 2020

Technical Skills

Computer Language: Python, MATLAB, Java, C, R, Verilog, C++, Bash, Linux, MySQL, PHP
Software/Tools: Pycharm, Unix/Linux, NetBeans, Arduino, Vim, QGIS, Visual Studios, OpenGL, GitHub, isPLever, ESP32 Microcontroller

Work Experience

Purdue University
Undergraduate Teaching Assistant

West Lafayette, IN
January 2020 – August 2020

- Assisted students troubleshoot problems during lab office hours
- Attended weekly meetings with other teaching assistants and professors
- Assisted Graduate Teaching Assistant in grading students' homework
- Worked on ECE 20875, Python for Data Science
- Continued to work job remotely during Covid-19 Pandemic

ECE Shop

January 2020 – August 2020

- Managed inventory of ECE Shop to help students locate spare electronic parts for lab courses
- Handed out lab kits to students taking various lab-based ECE courses
- Fixed broken lab equipment
- Made sure shop was kept in a clean and organized fashion
- Worked on the development of website for EE shop remotely during Covid-19 Pandemic

Research Experience

Georgia Institute of Technology
Civic Data Science REU, Undergraduate Researcher

Atlanta, GA
May 2019 – July 2019

- Conducted NSF funded research on fire truck delays at traffic light intersection
- Analyzed fire truck location data to determine behavior at intersection using QGIS
- Implemented filters to remove uninteresting points using Python
- Created analysis-based visualizations using leaflet.js: <https://cav.ce.gatech.edu/>

*Florida International University
NSFDOD REU, Undergraduate Researcher*

*Miami, FL
May 2018 – August 2018*

- Conducted NSF funded research on routing protocols for ad-hoc networks for swarms of drones
- Compared routing protocols based on how well drones routed data from one point to another using MATLAB

Academic Projects

Purdue University

Robotic Arm-Arduino

- Semester long project for Senior Design
- Controlled a Robotic Claw using Arduino IDE
- Used servo motors to move and hold robotic arm's joints
- Controlled motor positioning using PWM signal generated from esp32 WROOM chip
- Attempted to mimic human arm and hand movement wirelessly via Bluetooth

Pong-Embedded C

- Final project for Embedded Systems Design Class
- Programmed Pong on an LCD display using Embedded C
- Controlled paddles using joysticks wired on breadboard

Steganography-Python

- Final Project for Software Engineering Class
- Embedded colored image inside an image carrier and then extracted embedded image out without affecting its visual appearance
- Used Qt Designer, a GUI designer, to implement program in a GUI application