

JASON CHEN

107 Truman Road
Newton, MA 02459
LinkedIn: www.linkedin.com/in/jasonchen1998

jasonchen2021@u.northwestern.edu
jasonchensta10@gmail.com
(617)-584-8949

Education

Northwestern University, Evanston, IL
Master of Science in Robotics

December 2021

Purdue University, West Lafayette, IN
Bachelor of Science in Computer Engineering

May 2020

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

Purdue University, EE Shop, West Lafayette, IN

January 2020 – August 2020

- Managed inventory of EE 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

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/>
- Worked under Dr. Angshuman Guin at Georgia Institute of Technology

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
- Worked under Dr. Niki Pissinou at Florida International University

Academic Projects

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

Language Skills

Mandarin Chinese

Technical Skills Ranked from Most Proficiency to Least Proficiency

Computer Language: Python, MATLAB, Java, C, R, Verilog, C++

Software/Tools: Pycharm, Unix/Linux, NetBeans, Arduino, Vim, QGIS, Visual Studios, OpenGL, GitHub, isPLever,