

Maddox Lin

EDUCATION

2024—Present

Electrical and Computer
Engineering
University of Texas at Austin

2020—2024

Plano West Senior High School
GPA: 4.33

SKILLS

- Java
- C++
- ARM assembly
- C
- Python
- HTML
- CSS
- Javascript
- Full stack web development
- Embedded systems development
- SSH and Telnet
- Git
- Mandarin Chinese (Conversational)

CONTACTS

- pi.mdx24@gmail.com
- 469-954-2521
- [Personal website](#)

AWARDS AND HONORS

- National Merit Finalist (2024)
- AP Scholar with Distinction (2022-2024)
- National Honor Society
- SAT: 1580

PROJECTS

CHESS GAME

- Collaborated on a group project to develop a chess game using C and ARM assembly on the MSPM0 microcontroller
- Designed and implemented game logic and board state management without an OS

RECIPE WEB APP

- Developed a full-stack recipe web app with React frontend and Flask backend
- Built intuitive UI with recipe images, instructions, and embedded YouTube videos
- Gained experience working with React, Flask, SQLite, and REST API

PERSONAL WEBSITE

- Designed and developed a personal portfolio website to showcase projects and skills
- Built using HTML and CSS, and implementing animations using Javascript

TRAFFIC LIGHT SIMULATOR

- Developed a traffic light control system using C on the MSPM0 microcontroller
- Designed a Moore finite state machine and implemented corresponding I/O in both hardware and software

WORK EXPERIENCE

R&D LAB INTERN | ADTRAN

- Helped set up a new R&D lab for ethernet demarcation network interface devices
- Upgraded priority devices to the latest software images
- Made and installed server and management LAN cables, enabling remote software testing of lab devices
- Improved workplace efficiency by contributing to a web reservation tool used by all R&D engineers and by establishing new lab organization standards for future lab technicians

RESEARCH INTERN | CAST STEM BRIDGE

- Built and programmed a quadcopter drone to research and simulate countermeasures against drone fuzzing cyberattacks
- Gained hands-on experience in embedded systems, cybersecurity, and UAV systems