

Zhonghe Zheng

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EDUCATION

University of California, Irvine - *B.S. Computer Science and Engineering*

JUN 2024

GPA: 4.0

RELEVANT COURSEWORK: Programming with Python Libraries, Intermediate Programming, C++ Programming, Java Programming, Physics Mechanics, Physics Electric and Magnetism, Multivariable Calculus

EXPERIENCE

ICS Student Council - *Corporate Committee*

OCT 2021 - PRESENT

- ❖ Build and maintain relationships with companies and alumni
- ❖ Helped organize workshops offered to thousands of ICS students on writing resumes, setting up GitHub, and interview processes

FRC Robotics Team 846 - *Senior Design Lead*

AUG 2017 - JUN 2021

- ❖ Led a team of 8 to design, build, and assemble the Drivetrain of the Robot
- ❖ Oversaw design process of various robot subsystems (Drivetrain, Climber, Storage) during Build Season
- ❖ Taught design and machining workshops to 40-50 students

PROJECTS

MicroMouse

SEP 2021 - PRESENT

- ❖ Created a robotic mouse that can find the exit of a maze independent from human aid
- ❖ Implemented Flood Fill algorithm in C++ to traverse a maze and find the shortest path to the exit
- ❖ Used Arduino to control components

IEEE Open Project Source - *Personal*

SEP 2021 - PRESENT

- ❖ Hands-on learning program for embedded systems
- ❖ Projects include building a distance sensor with IR transmitters and receivers and designing a Redlight Greenlight game implemented with Serial Peripheral Interface
- ❖ Capstone projects include building a MicroMouse or a remote controlled car controlled by tilting an IMU

Journaling Application - *Personal*

SEP 2021 - DEC 2021

- ❖ Developed a file exploration system with Python which allow users to write, save, modify, and delete journal entries locally or publish them onto a server with network sockets and protocol
- ❖ Used JSON to send and retrieve data from APIs to enhance journaling experience
- ❖ Incorporated PyNaCl and Tkinter libraries to allow encryption and create a user-friendly GUI

SKILLS

Technical Skills: Python, Java, C++, Git, HTML, JavaScript, React, SQL, Bootstrap

Frameworks: Eclipse, Arduino, IDLE, IntelliJ, VS Code, Arduino, VIM