

Yusuf Morsi

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Python, C++, Java, C

EDUCATION

University of California, San Diego

- **Electrical Engineering B.S.** (Oct. 2020 - June 2024)
 - Depth in **Machine Learning and Controls**
 - Minor in **Business**
- **Relevant Coursework:** Robotics & Machine Intelligence; Pattern Recognition & ML; Deep Learning w/ Applications; Linear/Nonlinear Optimization; Control System Theory; Rapid Python Design; Data Structures and Algorithms; Computer Organization; Digital Systems; C/C++ Programming; Product Engineering I, II; Race, Gender, & Computing

UC San Diego Extended Studies

- **Business Management Certification** (May 2021)
- **Front-End Web Development Certification** (Sep. 2020)
- **iOS Programming Certification** (May 2019)

WORK EXPERIENCE

Software Engineer Intern, CarsXE API

June 2022 – Present

- Assisting in full-stack web development (**HTML/CSS**, **Vue.js**), and leading intern license plate recognition software implementation [**Python** (**TensorFlow**, **YOLOv4**, **OpenCV**, **Tesseract OCR**)]

Software Engineer Intern, UCSD Mobile Systems Design Lab (Dr. Sujit Dey)

June 2022 – Sep. 2022

- Assisted in the development of iOS (**Swift**), Android (**Java**, **Retrofit**, **JavaScript (Axios)**) apps that enable engagement between ML blood pressure platform, patients, and physicians.
 - Recipient of UCSD Summer Research Internship Program

Software Engineer Intern, Project YELLOW

Oct. 2021 – June 2022

- Strengthened internet safety by assisting in the designing and developing of an iOS social platform with restricted access by utilizing NFC chips to only allow adding real-life acquaintances (**Swift** and **Firebase**).

Research Intern, UCSD DigiHealth Lab (Dr. Edward Wang)

April 2021 – May 2022

- Developed I2C communication code with **C++**, utilized **Eagle** to design circuit schematics, and soldered in a laboratory setting.

PROJECTS

Drowsiness Detection with OpenCV and MATLAB

March 2021

- Increased student productivity by partnering with a colleague to program software to provide a buzzing alert when detecting user drowsiness and eye closing.
 - Used **Python** (**OpenCV**) to write eye movement detection code, **MATLAB** for hardware, and **LaTeX** for paper.

HC-SR04 Ultrasonic Security Sensor

Dec. 2020

- Tackled security vulnerabilities by teaming with peers to use movement to identify living beings for a security device.
 - Wrote **Arduino/C++** and **MATLAB** code, contributed to **Eagle** file, and prepared **Fritzing** file for on-time delivery.

LEADERSHIP / AWARDS

- **Winner of SD Hacks Civic Engagement Category** (April 2022)
 - Won **first place** in category out of 30 teams in a hackathon at UCSD by working with three colleagues to develop a [site](#) that matches student organizations with sponsors.
 - Designed and developed the UI/UX with **HTML/CSS**, **JS**.
- **CS Foreach Early Start Mentor** (Oct. 2021 – Present)
 - Working with other UCSD students to teach a high school student how to create a website with **HTML/CSS**, **JS**.
- **UCSD ECE Undergrad Student Council Mentor** (Oct. 2021 – Present)
 - I meet weekly with first-year ECE students at UCSD to advise them and answer their questions about ECE/ML.
 - Two of my mentees used my advice to land internships for the summer of 2022
- **Student of Distinction / Student Spotlight**, [UCSD Extended Studies](#) (July 2020)
- **Scholarship for Electrical Engineering**, *ACE Mentor Program* (May 2019)
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- **Scholarship for Electrical Engineering**, *ACE Mentor Program* (May 2020)

MORE INFORMATION

- Fluent in both English and Arabic
- Certified in [Project Management](#)
- Experienced with **ML**, **integrations**, **APIs**, **web and app development**, LTspice, Eagle, Vivado, Fritzing, Multisim