

OSCAR RODRIGUEZ JR.

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EDUCATION

University of California, Irvine
B.S. Software Engineering

Irvine, CA
June 2023 – June 2025

Mt. San Antonio College
Transfer

Walnut, CA
August 2020– June 2023

Projects

Tic-Tac-Toe Game (Work in Progress)

Los Angeles, CA

Solo Personal Project

September 2023 – Present

- Description: Developed a Tic-Tac-Toe game using C# and WPF, implementing a graphical user interface and game logic. The game allows two players to take turns marking cells and determines the winner or a tie.
- Technologies: C#, Windows Presentation Foundation (WPF), Event Handling, and User Interface Design
- GitHub Repository: <https://github.com/AlwaysOscar/TicTacToe-Game>

Heist Maze Game

Los Angeles, CA

Solo Personal Project

August 2023 – September 2023

- Description: Developed a C++ Console-based game called "Heist Maze" project, that challenges the user to steal loot from a maze filled with enemies of different variants.
- Technologies: C++, OOP, Polymorphism, and Console-based User Interface Design
- GitHub Repository: <https://github.com/AlwaysOscar/HeistMazeGame>

EXPERIENCE

Embedded Tutor (ET)/ Non-Grading TA

Walnut, CA

Mt. San Antonio College • Part-time

August 2022 – December 2022

- Work under the instruction of Professor Kenneth Ash at Mt.Sac for ENGR 6 (Introduction to Engineering Programming Concepts and Methodologies)
- Taught fundamental concepts of procedure-oriented programming, abstraction mechanisms, and design processes, interface of software with the physical world, use of sensors, and application of numerical techniques
- Led peer-led group study sessions bi-weekly, enhancing student comprehension and engagement
- Assisted students in debugging code, verifying Arduino/breadboard setups, and clarifying coding and sensor-related queries

VEXU Robotics Team Captain

Walnut, CA

Mt. San Antonio College • School Extracurricular

March 2021 – March 2022

- Led Team Rust in partnership with Doomba v2, representing MTSAC2 CORE
- Achieved VEXU Regular Season Record: 17-5-0
- Attained #11 ranking at VEX Worlds 2022 (6-4-0 record)
- Managed team projects and meetings weekly
- Oversaw engineering notebook and robot documentation
- Facilitated communication for funding and equipment
- As a team we engineered multifunctional robot with front and back intakes, drivetrain for climbing and balancing

Honors & awards

The Chancellor's Excellence Scholarship

Irvine, CA

Issued by University of California Irvine

May 2023

- One of the most prestigious scholarships UC Irvine offers to California residents who are freshmen entering from high school or transfer students entering from a California Community College. The selection committee conducts a comprehensive review of the applicant pool to determine the student's strength and breadth of academic preparation. Selection is based on a comprehensive review of the admissions application, including, but not limited to test scores and grades.

Excellence Award (VEXU Robotics) Hosted by USC

Los Angeles, CA

Issued by Southern California VEXU League

February 2022

- One team selected who exemplifies overall excellence in building a high-quality robotics program. Nominations for the award included high autonomous skills, judges interview, engineering notebook/documentation, & playoffs/ tournament final appearance

SKILLS

Programming: C++, C, C#, Java, Python, HTML, CSS and x86 Assembly (NASM) with Linux

Software: Visual Studio, Arduino IDE, AutoDesk TinkerCAD (Circuits), and Microsoft Office