Oscar Rodriguez

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EDUCATION

University of California - Irvine — Irvine, CA
Bachelor of Science in Software Engineering – GPA: 3.567 — *June 2023 – June 2025*

Mt. San Antonio College — Walnut, CA
No Degree Obtained (Transfer) — *Aug. 2020 – June 2023*
Relevant Coursework: Data Structures and Algorithms, Relational Databases, Principles of Operating Systems

EXPERIENCE

Embedded Tutor / Non-Grading Teaching Assistant — Aug. 2022 — Dec. 2022
Mt. San Antonio College — *Walnut, CA*
- Conducted bi-weekly instructional sessions for ENGR 6 (Introduction to Engineering Programming Concepts and Methodologies) under the guidance of Professor Kenneth Ash.
- Guided students in learning the C programming language, improving their understanding of debugging techniques and implementation of modular solutions.
- Assisted Professor during class embedded system portion of the labs using the Arduino platform, helping students with digital and analog Input/Output (IO), sensors, and actuators.

VEXU Robotics Team Captain — Mar. 2021 — Mar. 2022
Mt. San Antonio College — *Walnut, CA*
- Led a team in engineering a versatile robot capable of lifting a mobile goal, featuring a ring intake conveyor belt system, and adept at climbing a platform and balancing on top.
- Revamped engineering documentation, transitioning from a timeline-based to a project-based model, enhancing organizational efficiency and clarity.
- Introduced GNATT charts and elected specialized team members for tasks, ensuring efficient timelines and utilizing individual strengths.
- Achieved a VEXU Regular Season Record of 17-5-0, securing 11th place at VEXU Worlds 2022 with a 6-4-0 record.

- Link: https://drive.google.com/file/d/1au5SpVF4Ri56CWoyGWrVXN46zt9Hz92V/view?usp=sharing.

PROJECTS

Tic-Tac-Toe Game | *C-Sharp, Windows Presentation Foundation (WPF)* — Sept. 2023
- Developed a Tic-Tac-Toe game using C-sharp 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.
- GitHub Repository: https://github.com/AlwaysOscar/TicTacToe-Game

Heist Maze Game | *C++, Object-oriented programming (OOP), Polymorphism* — Sept. 2023
- 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.
- GitHub Repository: https://github.com/AlwaysOscar/HeistMazeGame

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (mySQL), C-Sharp, HTML/CSS, x86 Assembly (NASM)
Developer Tools: Git, GitHub, VS Code, Visual Studio, Eclipse

SCHOLARSHIPS AND AWARDS

The Chancellor's Excellence Scholarship — May 2023
Issued by University of California Irvine — *Irvine, CA*
- Prestigious scholarship for California residents, awarded to high-achieving freshmen and transfer students based on academic merit.

Excellence Award (VEXU Robotics) — Feb. 2022
Issued by Southern California VEXU League — *Los Angeles, CA*
- Recognized for overall excellence in building a high-quality robotics program, including high autonomous skills, judges interview, engineering documentation, and tournament performance.