Miguel **Villa Floran**

LEADER AND CHANGEMAKER · ASPIRING SOFTWARE ENGINEER · CURIOUS, CREATIVE, AND CLEVER

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Experience

DeepWater Exploration   *San Diego, CA*
PROGRAMMING INTERN   *Aug. 2022 - Present*
- Created the DeepWater Exploration website using Hydrogen.js, TypeScript, and GraphQL, Tailwind CSS, to interact with the Shoplify API, decreasing loading time by 32%.

VEX Robotics Team 687: The Nerd Herd   *Carson, CA*
VICE PRESIDENT / LEAD PROGRAMMER   *Sep. 2019 - Present*
- Coordinated a team of 5 to organize and direct an organization of 50+ members.
- Planned team meetings and utilized team members' skills, tools, and capabilities to assign/delegate appropriate tasks accordingly.
- Created robot programming/GitHub pull request standards to ensure code readability and cross-compatibility across different teams.

CodeDay/omegaUp   *Remote*
FULL STACK WEBSITE DEVELOPER INTERN   *Jun. 2020 - Aug. 2020*
- Created a metric system for a online learning platform that serves 25,000+ users.
- Using PHP, created a metric system that tracked the course progress of a user and displayed progress in the form of graphs and charts using TypeScript

Honors & Awards

NATIONAL

| 2022 | **Finalist**, Lemelsom-MIT InvenTeam Grant Recipient | *Remote* |
| 2020 | **Semi-Finalist**, CyberPatriot XIII Gold (top 31% of 2633 teams) | *Remote* |

Education

California Polytechnic State University, San Luis Obispo (Cal Poly)   *Carson, CA*
MASTER'S DEGREE, COMPUTER SCIENCE   *Sept. 2022 - May 2026*
- Artifical Intelligence and Machine Learning Concentration
- Clubs/Activities: Robotics Club, VEXU Robotics, CSAI Club, TRIO Achievers

California Academy of Mathematics and Science   *Carson, CA*
HIGH SCHOOL DIPLOMA, COMPUTER SCIENCE AND ROBOTICS   *Aug. 2018 - Jun 2022*
- Clubs/Activities: VEX Robotics , Academic Decathlon, Computer Science & Cybersecurity
- Relevant Coursework: Principles of Engineering, Introduction to Engineering Design, Computer Integrated Manufacturing, Digital Electronics

University of California, Irvine (UCI)   *Irvine, CA*
UCI ASPIRE SUMMER PROGRAM   *Jul. 2021 - Jul. 2021*
- Summer program that exposes high school students to Internet of Things (IoT) computing and technologies taught and mentored by UCI Professors and UCI Undergraduate and Graduate Students
- Topics covered included Raspberry Pi, Python, computer-aided design, rapid prototyping, and fabrication technologies
- Created a device functionally similar to a Google Home using a Raspberry Pi and Google Assistant SDK

University of California, Los Angeles (UCLA)   *Los Angeles, CA*
LOS ANGELES COMPUTING CIRCLE (LACC)   *Jul. 2019 - Aug. 2019*
- Summer program that exposes high school students to select computer science topics taught and mentored by UCLA Graduate Professors and UCLA Graduate Students
- Topics covered included Data Structures & Algorithms, Website Databases + APIs, Machine Learning, Artificial Intelligence, Social Networks, Embedded Systems, and Control Systems

Skills

Front-end	React, HTML5, CSS, JavaScript, Tailwind CSS, SASS, Bootstrap, Tailwind, Jekyll, Hugo, Sphinx
Back-end	MongoDB, Express, Node, Django, Flask, GraphQL, Hydrogen.js
Programming	Python, Java, C++, MATLAB, OpenCV, Tensorflow, LaTeX, Git, GitHub, Lua, Robot Operating System (ROS)
Languages	English, Spanish, Japanese
Interests	Computer Science, Frontend/Full Stack Development, Arduino, Raspberry Pi, Robotics, Control Systems
Strengths	Hard-Working, Motivator, Leader, Public Speaking, Lifelong Learner, Professional Googler, Effective Communicator