

Edward Carrasco

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Education

University of California, Riverside

B.S. Computer Science

January 2018 – December 2019

GPA: 3.32

Mount San Jacinto College

A.S. Computer Science

A.S. Computer Information Systems

September 2012 – December 2017

Skills

Programming: C++, C#, C, Java, Python, HTML, CSS, JavaScript

Tools: ROS, Django, Linux, Git, GitHub, Atmel Studio, Android Studio, Unity, Joomla CMS, MS Excel, Agile, Scrum, Kanban, Slack

Courses: Intro. Embedded Systems, Intro. Machine Learning, Computer Graphics, Intermediate Data Structures and Algorithms, Intro. Artificial Intelligence, Operating Systems, Compilers

Languages: English, Spanish

Experience

RoboSub UCR – Software Team Lead

February 2019 – present

Student organization that builds Autonomous Underwater Vehicles (AUVs) to compete against 60+ international teams at the annual RoboNation's RoboSub competition.

- Developed a Python module of states modeling each of the actions the AUVs can perform (moving, rotating, actuating devices, etc.) that could be combined to form state machines for any number of complex movements or underwater tasks.
- Lead team of 10+ students by using Kanban-style boards to assign and track tasks, meeting regularly to get the project's progress, and teaching the codebase to newer members.
- Coordinated with Mechanical and Electrical teams in weekly meetings to ensure smooth systems integration, such as making decisions on the devices the AUVs would use.
- Wrote extensive documentation on the goals for the student organization, the software systems, how they integrate with electrical components, and guides on how to operate the AUVs.

FIELDS Internship – Frontend Developer

July 2019 – September 2019

- Designed and created a dynamic and responsive website using the Django framework to communicate with a database. The website lets Medical researchers create an account, and upload data to a secure database, and visualize their data.

TekVisions Inc – Web Designer

May 2017 – September 2018

- Maintained company website using cPanel and Joomla CMS by writing content, updating HTML and CSS layouts, designing and editing graphics and logos.
- Updated custom e-commerce feature using Joomla extensions to support new features and growing business needs.

Projects

Pokemon Battle

- Developed video game in an embedded system environment using state machines to handle game states, combat logic, animations, and controller inputs.
- Integrated multiple components to work together: Nokia 5110 LCD, 16x2 LCD, SNES controller, and ATmega1284 microcontroller.

RocketChat Android App

- Lead a team of 8 students as Scrum Master, coordinated weekly meetings, and delegated tasks following Scrum guidelines to meet deliverable deadlines.
- Maintained GitHub repository through web interface and Git commands, tracked team members' code contributions, and resolved merge conflicts.