Axel Mariano Garces
Software Engineer

axelgarces11@icloud.com
https://axelgarces.github.io/

Education

Colorado Mesa University, Grand Junction, CO
Bachelor of Science, Computer Science
Expected Graduation Date: 05/2023

Relevant Coursework

- Computer Architecture & Assembly Language
- Algorithms
- Data Structures
- Python Machine Learning
- Database Design
- Object Oriented Programming

Technical Skills

- **Programming Skills:** C++, C#, Python, Java, JavaScript, HTML, CSS, SWIFT, Dart, Savant Programming, Crestron Home, Control 4, Git
- **Software & Tools:** Linux/Unix, VSCode, Flutter, XCode, Rider, Android Studio, Github, Savant Application Manager, Crestron Home, Arduino

Work Experience

Software Team Intern, Paragon Systems Integration, LLC, Aspen, CO, 6/2019 - Current
- Participate in the development and implementation of multi-million dollar projects.
- Design and implement fully automated systems, including integration with security, lighting and shades, and audio/video systems.
- Collaborate with senior developers to design and develop custom interfaces and integrations for clients.
- Partner with the IT department to optimize hardware configuration for security and efficiency.
- Coordinate with sales representatives to identify opportunities for software and hardware upgrades.

Lead Technician, Paragon Systems Integration, LLC, Aspen, CO, 6/2019 - Current
- Install, connect, test, and troubleshoot smart home systems and Cisco Network systems.
- Design and construct custom hardware racks for Audio & Video equipment, including pre-programming, and testing.
- Configure and integrate lighting &shades with smart home systems.
- Implement surveillance cameras, and door/gate access control, including programming and configuration.
- Cultivate relationships with builders, architects, and clients to provide exceptional experiences and services.

Low Voltage Infrastructure Lead, Paragon Systems Integration, LLC, Aspen, CO, 01/2019 - 06/2019
- Led a team of 2-5 individuals to execute low voltage wiring for a variety of construction projects, including new construction, retrofits, and remodels in the commercial, and residential sector.
- Developed a reputation for outstanding work in the infrastructure wiring and structural problem-solving through consistently earning the trust of builders, co-workers, and managers.
- Acquired expertise in interpreting and executing instruction from technical manuals, schematic diagrams, blueprints, and other specifications.
- Consistently recognized for a team-oriented attitude, the ability to work independently and efficiently under tight deadlines, which resulted in an increase in company profits.

Projects / Portfolio -Current

Laser Star Guide Embedded System – Local Client
- Collaborated closely with the client to design and implement a project intended for use in schools, and outdoor organizations.
- Led a team of colleagues in the design and implementation of the project that utilizes technology to provide users with information about constellations in the sky.
- Collaborated with a 3D printing organization to achieve a sophisticated and efficient design for the project.
- In addition to the overall project management, I was heavily involved in the design, front-end development, and backend development of our application.

Colorado Mesa University – New School App
- Led a team of colleagues in the design of a new application for students and staff of Colorado Mesa University.
- Emphasized the application of user interface design principles throughout the design process.
- Collaborated with students to identify and address issues with the existing application and develop solutions to improve its functionality.
- Worked closely with colleagues and an advising professor to turn the concept into a functional prototype.
- The application was awarded 4th place in the CMU Annual Student Showcase for outstanding design and concept.

IP Tables
- Collaborated with classmates to design, develop and implement a Linux command-line firewall for managing incoming and outgoing network traffic. Specifically, the firewall allows for root users and administrators to have full control over network traffic.

Society of Hispanic Professional Engineers CO Founder - <u>Vice President</u>
- Established a chapter of the Society of Hispanic Professional Engineers (SHPE) at Colorado Mesa University for underrepresented students.
- Developed a comprehensive charter and governance structure for the chapter, with the objective of achieving national recognition.
- Coordinate and execute various fundraising and community service events to further the chapter's mission and values.

-January 2021

Raspberry Pi - Smart Home Implementation
- Developed and deployed a single-zone smart home system utilizing a single Raspberry Pi processor and solely controlled through Internet Protocol (IP) connectivity.

Activities & Awards
- Recipient of the Reisher Scholar Foundation Full-Ride Scholarship for the years 2020-2022 at Colorado Mesa University.
- Member of Society of Hispanic Professional Engineers since 2019.
- Included in the Dean's Honor List at Colorado Mesa University, in the year 2019.
- Earned the Seal of Biliteracy, demonstrating proficiency in both Spanish and English.