MARIO GARCÍA   Software Engineer

Education

Bachelor's Degree: Mechatronics Engineering / Software Engineering

- Ranked above 99.09 percent of the participants in taking the EXANI-II (219 examinees), placing among the top three places under the ICNE review.
- Achieved a perfect 240/240 score on the Associate - CSWA full exam in SolidWorks.
- Taken Web Development, JavaScript, Python, Angular and AWS Bootcamps and courses.
- Designed a Python code to accurately represent motion in a virtual 3D plane, demonstrating proficiency in programming and application development.
- Maintained a 96 percentile during TSU studies and scored in the 95 percentile for engineering coursework, reflecting academic excellence and dedication.

Core Skills

Proficiency in Programming Languages	- HTML - CSS - JavaScript - Python - C & C++ (for Microcontrollers)	Algorithm Design	- Problem-solving - Algorithmic thinking - Data structures - Algorithmic paradigms - Testing and debugging
Front End Development	- Design and User Experience (UX) - Responsive and Adaptive Design - Performance Optimization	Skilled Speaker	- Communication & Teamwork - English C2, French B1, Korean B1 - Problem-Solving & Critical Thinking - Time Management & Prioritization - Continuous Learning & Adaptability

Professional Experience & Projects

Software Engineer Internship, Quanta Computer   October, 2023 - January, 2024

- Elaborated a code with Python that analyses Media Transfer Protocol files (mtp) and checks for certain values to determine if the results of a given test performed by an AOI machine are met.
- Made a code for establishing communication between a server and a client using Python socket library.
- Installed the required softwares such as Python, TestLog and Sublime in order to prepare two computers up and running for a Download station.
- Production line support for installed software. This includes data transfer revision, QRQC status check and unblocking, and support on AOI machines for template improvement to reduce NFTs.
- Made a project proposal to reduce the number of FAIL status caused by NFTs, and also a MES program optimization to help Quanta computer software engineers to make their tasks easier and reduce time waste at the AOI machines.

Reference contact: Ing. Alejandra Puente (Software Engineer)
Phone: +52 (81) 1529 8198

Internship, Universidad Tecnológica Gral. Mariano Escobedo   April, 2023 - September, 2023

- Worked in a private project along with three university doctors
  - Created a modular diagram of moderate complexity through top-down design using procedural abstraction. In its creation process, it was designed taking into account the software life cycle.
  - Made an analysis of the aspects that the program would contain, the form of the algorithm to specify the data flow was proposed.
  - In the analysis stage, the task of interacting with the client was carried out. Here a series of questions were asked to clarify the customer's vision.
  - Microcontrollers such as ESP32 and Arduino were used for the control part, and visualization interfaces were made for real-time monitoring of the data.

Reference contact: Dr. Valentín Guzman
Phone: +52 (81) 1665 1863
Reference contact: Ing. Leobardo Sánchez
Phone: +52 (81) 1689 5156

Web application Idea, Freelance   January, 2024- Current

- Making the inital analysis for specifying the needs.
- Creating the modular diagram to comprenhend its fundamental sections.
- Working on its design in order to have everything specified.

Inertial Measurment System on a 3D environment   February, 2023 - Mars, 2023

- Created a program in Python that used Serial communication to represent the movement of a physical system.
- Used Mathematical Engineering for representing the incomming data into movement.
- Usage of the library "vpython" for simulating the physical movement on the computer Localhost.

Reference contact: Lic. Prudencio López
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