Jorge Corichi Herrejón

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Recent graduate from Mechatronics Engineering and current Software Engineering and AI student. I'm an engineer with training and experience in providing software and hardware solutions. I'm always interested in learning new technologies for development, Quality Assurance and electronics. I'm a team-player, detail-oriented, self-driven person who is always looking for the next challenge.

Work Experience

Deloitte
Aug 2021 - Feb 2022

Systems Engineering Analyst

- Worked in high impact projects in Quality Assurance in international and multidisciplinary teams.
- Created and executed manual and automatic test cases for web and mobile environments, as well as for API's under Data Driven Developemnt and Behavior Driven Development frameworks, such as TestNG and Cucumber.
- Learned to integrate parameterized tests in CI tools, such as Jenkins.
- Created and dilligently followed testing plans and criteria.
- Learned to create and integrate proper documentation
- Constant use of version control tools, such as Gitlab.

INTESC Electronics and Embedded
May 2021 - Aug 2021

ARM Architecture Programmer

- Compiled and built specific versions of Micropython for a custom microcontroller board.
- Successfully wrote custom python libraries for digital audio processing.
- Properly documented software and hardware contributions.

Monterrey's Institute of Technology
Feb 2020 - Apr 2021

Laboratory Manager

- Designed and developed custom systems, both hardware and software, for laboratory monitoring. Said system measured electric usage and user presence, relaying all data through MQTT protocols for remote access.
- Redesigned the process for better user experience and automated elements in order to improve productivity.

Monterrey's Institute of Technology
Feb 2020 - Jun 2020

Innovation Projects Intern

- Successfully developed an IoT device capable of tracking user's posture for ergonomic monitoring.
- Employed several communication protocols, such as I2C and SPI, in order to communicate a variety of sensors to the microcontroller.
- Led a multidisciplinary team to build both hardware and software solutions.
- Programming lead for system's algorithm (C++) in data acquisition and processing, as well as Graphic User Interface deployment (Python).
- Work published and presented at the International Conference on Human Interactions and Emergerging Technologies on 2021.

Education

Monterrey's Institute of Technology   Aug 2016 - Jun 2021
BSE in Mechatronics

Centennial College   Sep 2022 - Current
Advanced Diploma in Software Engineering Technologies and AI

Notable Projects

Smart Vehicle - Volkswagen

Designed and implemented a modular sensor system that tracks essential data to determine the state of the vehicle. All data recollection was processed with a microcontroller that relayed processed data wirelessly to a Graphic User Interface developed with Python.

Human Machine Interface for Autonomous Vehicle

Developed and implemented a central hub for an autonomous vehicle under a Linux environment. The hub was created as Human Machine Interface that allowed individual inspection of the vehicle's subsystems through a Graphic User Interface developed with Python and Kivy.

Skills

Git	Training and1+years of project experience in Version Control tools.
Python	2+ years of project experience.
Java	1+ year of project experience in Object Oriented and functional programming.
C#	1+ years of project experience in Unit Testing, Objected Oriented Programming and game development.
SQLite/MySQL	6 months of project experience
Selenium	Training and project experience for web test automation.
Appium	Training and project experience for mobile test automation.
Postman	Training for API testing.
Front End Development	Training and experience with HTML, CSS and Bootstrap .

Languages

English	Fluent in Business.
Japanese	Advanced Conversation.
German	Basic Conversation
Spanish	Native language