Carlos Angel Patricio Martinez

♥ Zapopan, Jalisco, Mexico ☑ carangpatmar@gmail.com **** +52 341 197 03 74

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Professional Experience

Systems Validation Engineer

Zapopan, Jal, Mexico

Intel Labs

Feb 2023 - Current

- o Contributed to the development of Hala Point Z, the world's largest neuromorphic computing system, driving innovation in artificial intelligence hardware.
- o Designed, developed, and executed Bash/Python scripts for functional validation of Loihi chips and the Hala system, reducing hardware debugging time by 28% and ensuring full system functionality within project deadlines.
- Streamlined development operations for the Intel Neuromorphic Research Community by implementing a 10Gb LAN, improving program load times by 30% and boosting team productivity.
- o Enhanced system reliability by debugging and enabling new systems for internal and external clients, reducing downtime by 42% and improving overall operational efficiency.

Electrical Validation Engineer

Intel Corporation

Zapopan, Jal, Mexico Aug 2021 - Jan 2023

- Led the development of a Python-based real-time tracking GUI, reducing lost items by 65%, which streamlined asset management and increased operational efficiency.
- Assisted in the readiness, testing, and debugging of client products' critical interfaces such as USB3, SATA, PCIe, and DMI.

Electrical Validation Engineer

Intel Corporation

Colima, Col, Mexico Feb 2020 - Jun 2020

Aug 2015 - Jun 2020

- o Created a data gateway using a Raspberry Pi was developed, enabling seamless data exchange between Siemens LOGO! PLC and higher-level systems using Modbus TCP/IP and S7 protocols.
- o Implemented a local monitoring and control dashboard in Node-RED, achieving real-time operational visibility and constructed a remote dashboard on the Ubidots platform, integrating it with the gateway via MQTT protocol for advanced data analytics and control.

Education

Tecnologico de Ciudad Guzman

B.S. in Electronics Engineering

o GPA: 9.4/10

• President of the 11th National Congress of Electronics Engineering.

Publications

Mathematical model in Zigbee communication

November 2018

Ernesto Ruiz, Carlos Patricio, Jorge Gutierrez

CONIEEM Magazine

Skills and Interests

Languages: Native Spanish and Intermediate Advanced English.

Technical: Linux, Bash, Python, SQL, Computer Architecture.

Interests: Hiking, Camping, Mountain Biking.