

Jorge Luis Bustos Armas

Mechatronics Engineer

bustos.jorge21@gmail.com
Zacatecas
31 years old

PROFILE

Mechatronics Engineer with 4 years of experience in PCB design and firmware development. Skilled in embedded C programming, electronic design, and communication protocols such as I2C, SPI, RS-485, CANbus, MOD-bus, WiFi, and Bluetooth. Some hands-on experience assisting in electrical installations and HVAC systems. Familiar with safety compliance, risk prevention, and worksite coordination. Seeking to enhance my expertise in embedded systems and industrial automation.

WORK EXPERIENCE

Nov. 2024 - Nov. 2024 Aguascalientes, Mexico	Safety Assistant - Proyectos Integrales Especializados Supported compliance with workplace safety regulations and risk prevention protocols. Helped designate work areas and verified employee fitness for tasks based on medical evaluations. Assisted in supervising and inspecting hazardous work environments, implementing proper safety measures. Helped with incident response and corrective actions to improve workplace safety.
May. 2023 - Jun. 2024 Ciudad Sahagún, Mexico	Electronic engineer - DIII ENERGÍA Y PROYECTOS SA DE CV Programming of the electronic differential and development of the graphical interface for an electric vehicle using Python and Raspberry. Integration of data from different sensors through CAN-bus communication, electronic and PCB design for signal adaptation. Programming of microcontrollers for data acquisition from pneumatic system pressure sensors and sending this information through CAN-bus.
Oct. 2021 - May. 2023 San Antonio, USA	HVAC Assistant - Highland Commercial Properties Assistant in the installation of air conditioning systems, performing maintenance, changing capacitors, motors and control cards. assisted in installing and wiring electrical systems for residential Installation of thermal magnetic switch panels and adaptation of the electrical infrastructure for powering HVAC systems.
Nov. 2017 - Jul. 2021 Zacatecas, México	Development and Innovation Engineer - LASEC Telecomunicaciones SAPI de CV Design of electronic circuits, creation of bill of materials (BOM) and Gerber files for PCB manufacturing. Selection and updating of electronic components for acquisition, embedded programming in C language and version control with Git.

EDUCATION

2011 - 2017 Zacatecas, México	Mechatronics Engineer (Ingeniero en Mecatrónica) Instituto Politécnico Nacional
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SKILLS

Altium Designer	SolidWorks	Ladder Language
Python	C/C++	POO
MVC	Arduino	Computer Networks
Electronics	PLC	Microsoft Office
Unity	MySQL	Linux
3D Printing	Microcontrollers	Visual Studio Code
Git / GitHub	Proteus	Fluidsim

LANGUAGES

English Intermediate	Spanish Native
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SOCIAL MEDIA

LinkedIn: <https://www.linkedin.com/in/jorge-luis-bustos-armas/>
Website: <https://bustosjorge.github.io/>

