

Jorge Luis Bustos Armas

Mechatronics Engineer

bustos.jorge21@gmail.com

Aguascalientes, Mexico

32 years old

PROFILE

Mechatronics Engineer with hands-on experience in industrial automation, basic to intermediate PLC programming (Allen, Bradley, and Mitsubishi), HMI development, machine vision, and industrial communications. I have participated in integration, commissioning, and technical support projects for industrial machinery, laser marking systems, and camera verification systems. I also possess knowledge of electronic design, embedded systems, C/C++ and Python programming, PCB design, and 3D modeling, with a focus on continuous learning, problem-solving, and ongoing improvement. I hold valid Mexican and US passports and am available to travel.

WORK EXPERIENCE

Feb. 2025 - Currently
Aguascalientes, Mexico

Project Engineer - Neo Dex

Programmed Mitsubishi and Allen-Bradley PLCs for industrial automation systems. Developed Mitsubishi HMI interfaces for tank level monitoring, filling control, agitators, and pumps, including alarm management. Implemented a laser date coding system with Allen-Bradley PLCs, integrating camera-based verification and automatic rejection of defective parts. Authored operation manuals for technical support and operator training.

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

SKILLS

Altium Designer

SolidWorks

Ladder Language

Python

C/C++

MVC

Arduino

Computer Networks

Electronics

PLC

Microsoft Office

Unity

MySQL

Linux

3D Printing

Microcontrollers

Visual Studio Code

Git / GitHub

Proteus

Fluidsim

EPLAN Electric

LANGUAGES

English | Intermediate

Spanish | Native

SOCIAL MEDIA

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

Website: <https://bustosjorge.github.io/>

GitHub: <https://github.com/BustosJorge/>