

Brian Ibarra

Electronics Design Engineer

Contact



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Guadalajara, México

Electronics Design Engineer **student** with **high knowledge in programming and debugging firmware** for 8 bit and 32 bits **microcontrollers**, looking to start, learn and grow together in an **innovative company** contributing with **communication, collaboration** and **problem solving skills** such as creativity, analysis and research.

Education

August **2015** **Graduated – CETI Colomos**
July **2019** Technologist Electronics and Communications

August **2019** **In Progress – CETI Colomos**
July **2023** Bachelor of Engineering Electronics Design and Smart Systems

Experience

● Projects

2019 Indoor Air Quality Control – Bronze Medal in Local Fair

ESP8266 **Microcontroller firmware** programming in **C language**
I2C and **serial communication** with sensors
2 layers **PCB** designed in software **Eagle**
3D printed enclosure designed in software **Fusion 360**



2021 Water Consumption Manager – Gold Medal in National Fair and accreditation to Expociencias Nacional Chile 2022

Web application that allows people to register their daily water consumption

ESP8266 Microcontroller and serial communication with sensor
HTTP protocol to connect ESP8266 to Google Firebase
Web app designed and programmed with **JavaScript**
2 layers **PCB** design in **Eagle**
3D printed enclosure designed in **Fusion 360**



Technologies

● IDE

CodeWarrior, MCUXpresso, KEIL µVision

● Programming Languages

Assembly, C, C++ and JavaScript

● Communication Protocols

I2C, SPI, UART

● Electronics Simulation Software

Matlab, Multisim and Proteus

Skills

Active Listening

Creativity

Patience

Collaboration

Analysis

Research

Problem Solving

Adaptability

Languages

Spanish – Native Speaker

English – Advanced