



Enrique Espinoza

Mechatronics Engineer - Full Stack Web Developer - IoT Developer

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I am a Mechatronics Engineer passionate about Web Development and the IoT Environment, extremely motivated to constantly develop my skills and never stop learning. I have developed many projects that have improved my engineering skills such as electronics and programming, as well as social projects that have developed soft skills such as proactivity and communication.

EXPERIENCE

Full Stack Web Developer

Secretaría de Administración y Finanzas de la CDMX

05/2020 - 10/2020

CDMX, Mexico

Achievements/Tasks

- Develop internal notification system.
- Develop real estate system.
- Test of administrative systems of SAF.

Invited Researcher IoT

BISITE Research Group, Salamanca University

11/2019 - 01/2020

Salamanca, Spain

Achievements/Tasks

- Development of three base codes using laravel to use them as a template: Blade template, CRUD template and API template.
- Carry out research on connectivity technologies, AEP and SoCs.

Assistant Researcher

IIMAS, UNAM

02/2019 - 08/2019

CDMX, Mexico

Achievements/Tasks

- Development of automatic blinds systems.
- Development of smart charger for mobile phone.

PROJECTS

IoT system for agriculture indoor (02/2020 - Present)

- Develop an automatic climate control system.
- Develop a Web UI.
- Implement XAMPP, Laravel, Bootstrap, ESP SoC, etc.

Argentum (02/2019 - 06/2019)

- Real - time monitoring system for conveyor belt in the mining industry.
- Implement of RPi and PSD and IRED sensors.

Automatic seed drill machine (08/2018 - 11/2018)

- Development of an automatic seed drill machine.
- Implement of industrial sensors and actuators.

Zielcoin (04/2017 - 04/2017)

- Development of a smart money box
- Implement of Arduino and App Inventor

Kraken (08/2015 - 11/2015)

- Modeling and physical analysis of variable mass pendulu.
- Implement of Mathematica analysis and CAD modeling.

EDUCATION

Mechatronics Engineer

National Autonomous University of Mexico (UNAM)

08/2014 - 08/2019

CDMX, México

SKILLS

Python JavaScript JQuery HTML5 PHP

CSS3 Bootstrap SQL Git API REST

Laravel MongoDB Angular Node.js Linux

CAD/CAE Leadership Teamwork Analytical

Innovation Capacity Proactivity Resilience

ACHIEVEMENTS

Siemens Automation Challenge 2019

University Challenge awarded with second place at regional level.

Hackathon CPMX GDL, 2017

Development of a smart money box awarded with second place at Campus Party Mexico.

Design and Construction of Models and Experimental Prototypes, FI UNAM 2015

Modeling and physical analysis of variable mass pendulum. Awarded with third place at FI UNAM

CERTIFICATES AND COURSES

Scrum Foundation Professional Certificate (11/2020)

Introduction to IoT Cisco NA (10/2020 - 01/2021)

Platzi Courses https://platzi.com/p/_eskike (10/2020 - Present)

Management Skills UNAM (01/2019)

ORGANIZATIONS

Vice-President - Mechatronics Society College Of Engineering (06/2018 - 12/2019)

Organization of projects, courses and challenges for the student community.

President - [Asociación Estudiantil Poblana] (09/2017 - 09/2019)

General management of legal issues concerning the association.

LANGUAGES

English
Full Professional Proficiency

Spanish
Native or Bilingual Proficiency

Italian
Elementary Proficiency

INTERESTS

Entrepreneurship

Personal growth

Cycling

Geek

IoT

Data