

Guido Santillán

FULL-STACK WEB DEVELOPER · MECHATRONICS ENGINEER · TECH ENTHUSIAST

Quito, Ecuador

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"Be the change you want to see in the world."

Summary

Mechatronics Engineer with experience in design and improvement of automated processes, innovation of equipment and production systems using computer-aided design software to develop and test potential solutions. Proven skills in CAD/CAM/CAE, mechatronic design, PLC, embedded systems, programming, design of machine elements, integrated manufacturing systems. Additionally, he spends his free time in the research of trending and emergent technologies and its future applications in the country.

At the present time, he is actively looking forward to expand his knowledge, improve his skills and obtain experience related to the development of industrial solutions with a local and global focus.

Projects

DesignIO

INDEPENDENT DEVELOPER

Quito, Ecuador

April 2019

- Improve your design!
- Ongoing open source project hosted on GitHub

Syder Ideas

INDEPENDENT DEVELOPER

Quito, Ecuador

January 2019

- Manage your ideas!
- Stores all data in a **PostgreSQL** database
- Ongoing open source project hosted on GitHub

Experience

Project Manager

ECUAFRANQUICIAS

Quito, Ecuador

April 2017 - April 2019

- Automation of multiple internal processes using office automation tools and Excel to reduce in half the time needed to deliver the product to our clients while simultaneously detecting errors in the development stage and giving employees more FREEDOM.
- While the processes automation improved a lot of things, it was not enough to maximize the performance of the employees. The development of a system was needed. The development of a tool was pitched to solve these problems, this tool will use modern technologies to gather, store, and manage information in an easier way for the employees.
- Operative and administrative process documentation of our clients.
- Implementation of email marketing campaigns using MailChimp to approximately 3000+ subscribers.
- A SEO strategy was put in place to improve local search results. This strategy consisted in webpage redesign, webpage optimization, keyword research and analysis, content creation, webpage analytics.

Web Developer

INDEPENDENT WORK

Quito, Ecuador

June 2017 - June 2018

- Redesign of multiple websites *Asociacion Ecuatoriana de Franquicias, Ecuafanquicias, Villagran Lara Asociados* websites using various CMS.
- Focused on achieving maximum web performance, faster loading times, mobile-friendly and optimized for SEO purposes.

Research and Teaching Assistant of: Computer-aided Design, Manufacture and Engineering subject (CAD, CAM, CAE)

DEPARTMENT OF ENERGY AND MECHANIC SCIENCES - ESPE

Quito, Ecuador

Nov. 2015 - Mar. 2016

- Modelling, analysis and manufacture of a vehicle-based RIN.
- Out-come report generation, elaboration of processes sheets, G-code programming, design of the vehicle-based RIN using computer-aided software, strain simulation and post-process of the manufacturing operations.

Undergraduate Researcher, Manufacturing Processes Lab.

ARMY FORCES UNIVERSITY - ESPE

Quito, Ecuador.

Jan. 2015 - Mar. 2015

- Design and development mechanism for mobile robots mechanisms using 3D printing and laser cutting techniques.

Education

PyTorch Scholarship Challenge from Facebook

UDACITY

Online

Nov. 2018 - Jan. 2019

- Used Pytorch, Jupyter
- Trained a deep neural network to detect distracted driver
- Trained a deep neural network to classify 102 species of flowers

International Exchange Student

TECHNISCHE HOCHSCHULE BRANDENBURG

Brandenburg an der Havel, Germany

March - Sept. 2016

- Development of thesis project: "*Implementation of HIL/SIL simulation techniques for real-time tests of vehicle models using the DSPACE platform*"
- GPA: A-
- System modelling | Vehicle dynamics | Embedded systems

Bachelor of Science (B.Sc.), in Mechatronics Engineering

ARMY FORCES UNIVERSITY - ESPE

Quito, Ecuador

Apr. 2011 - Feb. 2016

- GPA: 17.43/20
- Industrial Robotics | Mechatronic Automation | CAD/CAM/CAE

Skills

LANGUAGES:

Spanish	Native
English	Fluent - Sufficiency in English Certificate completed at ESPE
German	Basic - A1 completed at Technische Hochschule Brandenburg - Germany

PROGRAMMING EXPERIENCE:

Web development	HTML, CSS, SCSS, Bulma, Javascript, GIT, Webpack
Frontend	React, Redux, React-Router
Backend	NodeJS, Express
Testing	Jest, Enzyme
Databases	PostgreSQL, MongoDB, Redis
Hosting	Netlify, Heroku
CMS	Wordpress
Machine Learning	Pytorch, Jupyter
Others	Python, Pandas, \LaTeX
Basic experience	C, C++, Java

OTHER:

Media	Adobe Indesign, Adobe Illustrator, Sony Vegas
Digital Marketing	Search Engine Optimization, Google Analytics, Google Search Console, Email Marketing
CAD/CAM/CAE	SolidWorks, AutoCAD 2D/3D, Siemens NX
Mathematical Analysis	Matlab/Simulink, LabVIEW
Electronic Design	Proteus, Multisim

Honors & Awards

2016	Honorable Mention , Awarded by the <i>Army Forces University's</i> principal	<i>Quito, Ecuador</i>
2016	Winner , EXPOINDUSTRIAL 2016 Mechatronics Competition – FESTO CHALLENGE	<i>Quito, Ecuador</i>
2016	High Performance Scholarship , Awarded by the <i>Army Forces University</i> to develop research projects in Germany	<i>Quito, Ecuador</i>