Guido **Santillán**

FULL-STACK WEB DEVELOPER · MECHATRONICS ENGINEER

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

Web Page Developer
INDEPENDENT

Quito, Ecuador
April 2018 - Current

- Development of a web app focused on user's productivity improvement.
- Redesign of Asociacion Ecuatoriana de Franquicias website.
- Redesign of Ecuafranquicias website.
- Redesign of Villagran Lara Asociados website.
- Development of a web app focused on user's productivity improvement.

Project Manager
ECUAFRANQUICIAS

Quito, Ecuador.
June 2017 - April 2019

- Franchisable business's operative and administrative processes documentation and management.
- Part-time job based-on time availability.

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.

Experience

Web Page Developer
Independent

Quito, Ecuador
April 2018 - Current

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Project Manager
Ecuafranquicias

Quito, Ecuador.
June 2017 - April 2019

- Franchisable business's operative and administrative processes documentation and management.
- Part-time job based-on time availability.

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

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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

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 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

High School, Diploma with a specialization in Mathematics and Physics
Colegio Municipal Experimental "Sebastián de Benalcázar"

Quito, Ecuador
Aug. 2005 - Aug. 2010

- GPA: 18/20

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, TypeScript
Frontend	React, Redux, React-Router, Next.js, Apollo, Gatsby, Progressive Web Apps
Backend	NodeJS, Express, GraphQL, Docker, Web Sockets
Testing	Jest, Enzyme
Databases	PostgreSQL, MongoDB, Redis
Dev Ops	AWS Lambda, Circle CI
Hosting	Netlify, Heroku
Networking	HTTP server with Apache, DNS, DHCP using Ubuntu Server
CMS	Wordpress
Mobile	React Native
Desktop	Electron
Development	Python, C, C++, Java, Assembler (micro-controller level)
Industrial-based	LADDER Programming, G code
Others	LaTeX

SOFTWARE EXPERIENCE:

CAD/CAM/CAE	Solidworks, AutoCAD 2D/3D, Siemens NX
Mathematical Analysis	Matlab/Simulink, LabVIEW
Software Development	Arduino, Processing
Electronic Design	Proteus, Multisim
Automation	Wonderware InTouch, RSLogix, MicroWin Step7, FESTO Fluidsim, Automation Studio
Office Automation	Microsoft Office, Project, Visio
Media	Adobe Indesign, Adobe Illustrator, Sony Vegas
Operating Systems	Windows, GNU Linux distributions (Ubuntu, Linux Mint)

Honors & Awards

2016	**Honorable Mention**, Given by Army Forces University's principal	*Quito, Ecuador*
2016	**Winner**, EXPOINDUSTRIAL 2016, Mechatronics Competition – FESTO CHALLENGE	*Quito, Ecuador*
2016	**High Performance Scholarship**, Given by Army Forces University for the development of research projects in Germany	*Quito, Ecuador*