# Guido **Santillán**

FULL-STACK WEB DEVELOPER · MECHATRONICS ENGINEER · TECH ENTHUSIAST

*Quito, Ecuador*

📱 (+593) 987473691 | ✉ guidosantillan01@gmail.com | 🏠 www.guidosantillan.com |
🐙 guidosantillan01 | 🔗 guido92

*"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**                                                                              *Quito, Ecuador*
INDEPENDENT DEVELOPER                                                                       *April 2019*

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

**Syder Ideas**                                                                           *Quito, Ecuador*
INDEPENDENT DEVELOPER                                                                     *January 2019*

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

## Experience

**Project Manager**                                                                       *Quito, Ecuador*
ECUAFRANQUICIAS                                                                    *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 campaings 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

*Quito, Ecuador*

INDEPENDENT WORK

*June 2017 - June 2018*

- Redesign of multiple websites *Asociacion Ecuatoriana de Franquicias*, *Ecuafranquicias*, *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)

*Quito, Ecuador*

DEPARTMENT OF ENERGY AND MECHANIC SCIENCES - ESPE

*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.

*Quito, Ecuador.*

ARMY FORCES UNIVERSITY - ESPE

*Jan. 2015 - Mar. 2015*

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

s

## Education

### PyTorch Scholarship Challenge from Facebook

*Online*

UDACITY

*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

*Brandenburg an der Havel, Germany*

TECHNISCHE HOCHSCHULE BRANDENBURG

*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

*Quito, Ecuador*

ARMY FORCES UNIVERSITY - ESPE

*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 *Army Forces University's* principal | *Quito, Ecuador* |
| 2016 | **Winner**, EXPOINDUSTRIAL 2016 Mechatronics Competition – FESTO CHALLENGE | *Quito, Ecuador* |
| 2016 | **High Performance Scholarship**, Awarded by the *Army Forces University* to develop research projects in Germany | *Quito, Ecuador* |