) Santil

MECHATRONICS ENGINEER · IT CONSULTANT

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.

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: 19/20 (A-)
- System modeling.
- Vehicle dynamics.
- Embedded systems.

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

ARMY FORCES UNIVERSITY - ESPE

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

High School, Diploma with a specialization in Mathematics and

COLEGIO MUNICIPAL EXPERIMENTAL "SEBASTIÁN DE BENALCÁZAR"

• GPA: 18/20

Quito, Ecuador

Quito, Ecuador

Apr. 2011 - Feb. 2016

Aug. 2005 - Aug. 2010

Experience

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 - March 2016

- Elaboration of complementary teaching resources.
- Modeling, 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.
- Maintenance and review of the machines and equipment from the Manufacturing Processes Lab.

GUIDO SANTILLÁN · RÉSUMÉ

Project Manager Quito, Ecuador.

ECUAFRANQUICIAS Oct. 2016 - January 2017

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

Undergraduate Researcher, Manufacturing Processes Lab.

Quito, Ecuador.

ARMY FORCES UNIVERSITY - ESPE

Jan. 2015 - Feb. 2015

- Design and development of mobile robots mechanisms using 3D printing and laser cutting techniques.
- Assistance in the implementation of projects performed at the lab.

Math, Physics, Robotics, Office Automation teaching for beginners.

Quito, Ecuador

June 2013 – February 2016

INDEPENDENT WORK

• Teaching focus on high school students.

Web-app developer

Quito, Ecuador

January 2017 – Currently

• Development of a web app focused on user's productivity improvement.

Skills_

FREELANCE

LANGUAGES:

Spanish Native

English Fluent - Sufficiency in English Certificate completed at ESPE

German Basic - A1 completed at Technische Hochschule Brandenburg - Germany

SOFTWARE EXPERIENCE:

CAD/CAM/CAE AutoCAD 2D/3D, Solidworks, Siemens NX **Mathematical Analysis** Matlab/Simulink, LabVIEW, MathCad

Electronic Design Proteus, Multisim

Automation Wonderware InTouch, RSLogix, MicroWin Step7, FESTO Fluidsim, Automation Studio

Software development Arduino IDE, Processing, AVR Studio, Visual Studio, Android SDK.

Office automation Microsoft Office, Project, Visio

Media Sony Vegas, Adobe Illustrator, GIMP, MAGIX Composer.

Operating Systems Windows XP,7,8,10, GNU Linux distributions (Ubuntu, Linux Mint)

PROGRAMMING EXPERIENCE:

Development C, C++, Java, Assembler (micro-controller level) **Industrial-based** Ladder Programming, CNC G and M code

Networking HTTP server with Apache, DNS, DHCP using Ubuntu Server.

Web development HTML5, CSS3, PHP, Ruby on Rails.

Others LTFX, Wordpress, GIT, Cloud9, Heroku.

Honors & Awards

Honourable Mention, Delivered By Army Forces University's principal.
Winner, EXPOINDUSTRIAL 2016, 3rd Mechatronics Competition – FESTO CHALLENGE
Quito, Ecuador

High Performance Scholarship, Delivered by Army Forces University for the

development of research projects in Germany.

Ouito. Ecuador