Santiago López Rojas
Electronic Engineer

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Electronic Engineer from ITCR, with knowledge in design, simulation and construction of analog and digital circuits. Interest on working with digital signal processing, embedded systems and artificial intelligence. Passionate about research, always looking for new and better ways to perform any process when necessary.

🎓 EDUCATION

2014 - 2019	**Electronics Engineering**, Lic. Degree, Instituto Tecnológico de Costa Rica
2009 - 2013	**High school**, Colegio Sagrado corazón. San José, Costa Rica

🌐 LANGUAGES

Spanish	● ● ● ● ●
English	● ● ● ● ○

✚ SOFT SKILLS

> Passionate
> Sociable
> Patient
> Hard-Working
> Discipline
> Team-Worker
> Determinate

☰ HARDWARE AND SOFTWARE SKILLS

Programming Languages	C, C++, Python,Java, Verilog,x86 assembly
Mathematical Tools	MatLab, Octave
Design Tools	Simulink, rltool, Pidtool, Filter Designer Matlab
Developer Tools	Psoc Creator, Qtcreator, Code Composer, Arduino, Eclipce, ISE Design Suite, Sublime Text, Visual Studio
Simulation Tools	Modelsim. Multisim, LTspice
Operative Systems	Windows, Linux
Others	Microsoft office, LaTeX, Dropbox, GitHub, VideoPad, QGiS, ILWIS, GoogleColab, Agisoft PhotoScan, academic knowledge in database

👤➕ EXPERIENCE

Currently September 2019	**Programmer Analyst I, COVANCE, Costa Rica** > Python Programming > Analysis of pharmaceutical data > Set up data entry screens per approved specifications for selected projects > Ensure awareness of project specific quality and performance standards and ensure that these are adequately documented, communicated and understood `Python` `Pandas` `SAS`
Currently January 2019	**Student Assistant, UAS PHOTOGRAMMETRYLABORATORY, Instituto Tecnológico de Costa Rica** > Image processing > Application of IA techniques > Project development, applying research methods in innovative areas `QGIS` `ILWIS` `YOLO` `GoogleColab`

👥 Extracurricular Activities

August 2018
February 2018

Student Exchange, Universidad de Málaga, España
- Embedded systems
- Automatic Control
- Power Electronics Circuits
- Introduction to Electric Vehicles

Matlab · Code Composer · Qtcreator · Psoc Creator

Currently
2014

Athlete, swimming team, Instituto Tecnológico de Costa Rica
- Participation in JUNCOS Costa Rica, 2019
- Participation in JUNCOS Costa Rica, 2017
- Participation in JUDUCA Honduras, 2016
- Participation in JUNCOS Costa Rica, 2015
- National Federated Athlete

Team-Worker · Hard-Worker · Discipline · Passionate

💻 Projets

Monitoring of coffee plantations through UAS photogrammetry   2019

Implement a strategy of monitoring coffee plantations using ANN for detection

QGiS · ILWIS · GoogleColab · Agisoft PhotoScan

TIVA Controller using FreeRTOS   2018

🎧 github.com/slopezRedfox/gise-p1-tiva-Santy241996-master   🎧 github.com/slopezRedfox/gise-p1-qt-Santy241996-master

Implement a FreeRTOS controller to a Tiva™ C Series TM4C123G, in order to verify the board attributes

Code Composer · QtCreator · Eclipce

RTC Control and VGA   2016

🎧 github.com/MartinBR95/-Controlador-e-interfaz-en-FPGA-para-RTC-

Design and implementation of RTC control system with finite state machines using Digilent Nexys 3 Spartan 6 FPGA board and deployment of its information using VGA.

Modelsim · ISE Design Suite

💬 Références

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