

MARLON JESÚS JIMÉNEZ ACOSTA

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Git https://github.com/chusd7

ABOUT ME

Electrical engineering student with emphasis in computers and networks at University of Costa Rica, passionate about power electronics, Artificial Intelligence and new technologies. Always looking for new knowledge and new challenges to solve with creativity, teamwork and critical thinking.

EDUCATION

English Training Course
Instituto Técnico Bilingue (ITB)
01/2023 – 10/2023

Bachelor Degree, Electrical Engineering
University of Costa Rica
2017 – Ongoing
89.5% approved
Estimated Graduation Date: August 2024

High School Degree
Edgar Cervantes Villalta High School
2012–2016

WORKING EXPERIENCE

Assistant in Electric Power and Energy Research Laboratory (EPERLab)
University of Costa Rica
05/2023–ongoing

- Assist the teacher in documentation of Machine Learning methods related to Power Systems.
- Read and implement different type of papers related to PV Hosting Capacity and their impact on Distribution Systems.

Research project assistant in *Laboratorio de Conversión de Energía* (LabCES)
University of Costa Rica
02/2022–ongoing

- Assist the teacher in the commissioning and documentation of electrical devices related to motor control.
- Research and implementation of power electronic systems.
- Organize the laboratory inventory and help with daily tasks.

PROJECTS

Prototype of a High Power Battery Cycler (POWER ELECTRONICS)
2023

- Development of one low-price prototype of a battery cycler based on power electronics.
- Research and understand topics like Control of current and voltage systems, creation of a solid prototype and soldering in SMD.

PCIE transmission layer (Verilog)
2021

- Development of PCIe transaction layer using HDL in order to design, test and simulate the implementation.

Eye Tracking (PYTHON)
2018

- Develop a program based on Open CV that allows a person with partial or total motor disability to communicate only with the movement of the eyes.

TECHNICAL SKILLS

Software

- Linux, Windows, Latex, Git, Matlab TINA-TI, PLECS, Wolfram Mathematica, Spice. Basic management of ETAP.

Programming

- C, C++, Python, Verilog, Assembly.

Other skills

- Experience in Machine learning models.
- Experience in microcontrollers, SMD soldering.

SOFT SKILLS

- Leadership
- Innovative
- hard-working
- Responsible
- Efficient Underpressure Worker
- Excellent teamwork player
- Eye for detail
- Honest

LANGUAGES

- Spanish ●●●●●
- English ●●●●●