

Diego Lopez

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diegolop08.github.io

SUMMARY

Mechanical engineering student passionate about space engineering and robotics. Capable of integrating mechanical and electronic approaches to build innovative solutions. Strong experience of working on microcontroller-based projects. Experienced leading and working on large international teams. Self-motivated and always seeking for new concepts to learn.

EDUCATION

Mechanical Engineering

Universidad de La Sabana

2019 - Ongoing

Bilingual High School Degree

San Juan de Avila Bilingual School

2018

LANGUAGES

Spanish	Native	English	Professional proficient	German	Beginner
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SKILLS

Soft

Natural Leader	Proactive Self-starter	Attentive Learner	Adaptable to New Environments
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Software

Autodesk Inventor	Fusion 360	C/C++	LabView	Python	MATLAB	Microsoft Excel	KiCad
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EXPERIENCE

Laboratory Intern

Costa Rica Institute of Technology

06/2022 - 08/2022 Cartago, Costa Rica

- Assisted in the assembly of a mobile ground station for satellite communication.
- Designed and **3D printed** mounting components using **Fusion 360**.
- Used **LabView** to evaluate a faulty Li-Ion battery for later reparation.

Instrumentation Head

Project Polaris - AREX

03/2022 - Ongoing

- Led the design and selection of specific instrumentation to fulfill the scientific requirements for a student- led project which aim is to design and build a rover that could explore the surface of Titan, Saturn's moon.
- Programmed microcontrollers operating the instrumentation for the Earth Star Rover using **Raspberry Pi**, **Python** and **Arduino**. Documented the code developed on **GitHub** following requested parameters.
- Integration of peripherals using UART, SPI, I2C and interruptions.
- Designed and **3D printed** cases for instrumentation modules using **Autodesk Inventor**.

Leader of Electronics

UHEV - Universidad de La Sabana

03/2019 - Ongoing Bogota, Colombia

- Hand soldering of electrical components on universal boards and PCB.
- Designed the PCB for the electronic speed controller of the vehicle using **KiCad** for schematics, layout and gerber generation.
- Received an honorific mention for the innovative technical design at Shell Eco-Marathon Brazil 2022.
- Results-oriented work under a fast-paced environment.

HONORS AND AWARDS

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| ★ Winner of the 2019 Excellence Scholarship awarded by Universidad de La Sabana department of engineering. | ★ Winner of the 2021 Sabanahack hackathon awarded by Universidad de La Sabana and Prodigious. | ★ IELTS 7.5 Overall Band Score |
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