

Diego Alfonso Lopez Guerrero

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Profile

Mechanical engineering student passionate about space engineering and robotics. Capable of integrating mechanical and electronic approaches to build solutions. Self-motivated and always seeking for new concepts to learn.

Education

B.S. Mechanical Engineering at Universidad de La Sabana 2019-Present

Bilingual High School Degree at San Juan de Avila Bilingual School 2018

Software skills

- Autodesk Inventor: Designing, assembling and drafting mechanical parts.
- MATLAB: Development of algorithms to obtain numeric solutions to mathematical problems.
- Microsoft Office: Word, Excel, PowerPoint, OneNote, OneDrive.
- C/C++: Capable of developing software to control and manipulate hardware built in Arduino and other Microcontrollers.
- Python: Use of libraries to produce adaptable software.
- KiCAD: Designing electrical circuits and preparing it for PCB production.

Personal skills

- Adaptable to new environments
- Natural leader
- Proactive self-starter
- Attentive learner
- Working under pressure
- Dedicated team member

Extracurricular

Unisabana Herons EV 2019-Present
Leader of electronics

In charge of leading the team responsible for designing, building and testing the electronic speed controller for an electric car participating in Shell Eco-Marathon where the aim is to build the most efficient vehicle competing along with team from all the continent.

Polaris Project 2022-Present
Instrumentation Head

Leading the team in charge of conceptualizing, designing and selecting specific instrumentation to fulfill the science requirements for a student-led project which aim is to design and build a rover that could explore the surface of Saturn's moon, Titan.

Relevant recognitions

- 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.

Languages

- Spanish: Native language
- English: IELTS 7.5 Overall Band Score