

Josué Romeo Aldana Aguilar

 Github  LinkedIn

Residence: San Salvador, El Salvador

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Place of birth: San Salvador, El Salvador * *Date of birth:* 23-05-1999

Education

- Bachelor's degree in Electrical Engineering** *Don Bosco University*
Bachelor's degree program *2019 - 2023*
Final grade: 8,5/10,0
Capstone project: Design and Simulation of a COTS-Based Electrical Power System for HABs
- Technical Diploma in Electronics Engineering** *Don Bosco University*
Technical Engineering Program *2017 - 2018*
Final grade: 8,7/10,0
Hands-on experience in automation and electronics through multiple course-related projects.

Conferences and Workshops

- Workshop on Machine Learning on Low-Power Devices: Applications and Advanced Topics**
The Abdus Salam International Centre for Theoretical Physics. *2024*
Online
- Joint ICTP-IAEA School on Systems-on-Chip Based on FPGA for Scientific Instrumentation and Reconfigurable Computing**
The Abdus Salam International Centre for Theoretical Physics. *2023*
Trieste, Italy
- Estimation of Shade Levels in Coffee Cultivation Using Segmentation Methods and Deep Learning**
IEEE 41st Central America and Panama Convention. *2023*
Tegucigalpa, Honduras
- Design and Simulation of a COTS-Based Electrical Power System for HABs**
1st Central America Space Congress. *2023*
San José, Costa Rica
- A Comprehensive Guide to Testing and Selecting 18650 Batteries for HAB Missions**
IEEE Students 40th Central America and Panama Convention. *2023*
Guatemala, Guatemala
- Selection of UHF Antennas for a Near-Space Mission on a HAB and Regulated Freq.**
IEEE Students 39th Central America and Panama Convention. *2022*
San Salvador, El Salvador

Proyectos

- Micro-Macro Observatory (MMO)** *2024*
Ingeniero Electrónico y de Software *San Salvador, El Salvador*
- Micro-Macro Observatory (MMO)** *2022 - 2023*
Pasantía en Ingeniería Eléctrica *San Salvador, El Salvador*

Technical skills

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| Programming Languages/Tools | Python, C++, C, L ^A T _E X, Git & GitHub, Matlab, Labview, Eagle, Multisim, LTspice. |
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Teaching Roles

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| Olympic Astronomy Group | Instructor in Physics and Mathematics, focusing on fundamentals for astronomy and astronautics students. |
| ACE402 | Instructor for Technical Diploma on Electrical Engineering students, specializing in fundamental electrical circuit concepts. |


Extracurricular Activities

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|-----------------------------|---|
| Astronomy Enthusiast | Active member of the University's Astronomy Students' Association. Participates in astronomy camps and enjoys engaging in public science outreach activities. |
| Non-Fiction Reader | Avid reader with a keen interest in non-fiction literature, focusing on science, history, and personal development. |
| Music Aficionado | Enthusiastic about diverse music genres, regularly exploring and appreciating new and classical music collections. |



Language Proficiencies


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|----------------|----------------------------------|
| English | Proficiency at B2 level. |
| Spanish | Native / Bilingual Proficiency . |

Memberships

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|  IEEE | Active member in the Institute of Electrical and Electronics Engineers, with involvement in the Aerospace and Electronic Systems Society (AESS) and Electron Devices Society (EDS) chapters. |
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Referees

 **PhD. Yakdiel Rodriguez-Gallo**
 **yakdiel.rodriquez@udb.edu.sv**
Don Bosco University

Msc. Brisa Margarita Terezon
 **brisa.terezon@udb.edu.sv**
Micro - Macro Observatory