

Oswaldo Arias

Aeronautic Engineer and Programmer

- Quanajuato, Mexico
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LANGUAGES

English

Spanish

B2

Native

CERTIFICATIONS

LabVIEW Core I & II

LabVIEW

Introduction to worldskills Mobile Robotics Platform

Studica & worldskills

Responsive Web design

freeCodeCamp

Ongoing

Scientific Computing with Python

freeCodeCamp

Ongoing

Back End Development and APIs

freeCodeCamp

Ongoing

As a web server developer, I possess extensive experience in GNU/Linux, self-hosting, and microcontrollers dating back to 2014. I have successfully completed various home automation projects that involved integrating microcontrollers. My programming expertise encompasses languages such as Python, Julia, Rust, Go, C, and MATLAB. Furthermore, I am a native Spanish speaker, and I have a professional-level command of English. I am also proficient in using Microsoft Office tools.

EDUCATION

Centro de Bachillerato Tecnológico industrial y de servicios No. 148

(August 2016 - July 2019)

Programmer Technician

Instituto Politécnico Nacional

(August 2019 - Present)

Aeronautic Engineer

PROJECTS

Automatic Meteorological Station

(November 2022 - Present)

Researcher

Research, development, implementation, and analysis of an automated meteorological observation system.

Aviation

IoT

Embedded Systems

Meteorology

Rocketry Electronics

(April 2021 - November 2021)

Phoenix Rocketry Advisor

Provide guidance on the selection and handling of components for the construction of an experimental rocket.

Rocketry

Aeronautics

<u>Avionics</u>

Electronics

Mobile Robotics

(May 2018 - December 2019)

worldskills expert

Application and implementation of mobile robotics systems in preparation for the WorldSkills Kazan 2019 competition. Work was done using the LabVIEW system, with components from Studica and NI.

Robotics

International

Mexico

3D Design and Printing

(June 2019 - July 2019)

Instructor

Teaching 3D design and printing to high school students, using CAD tools such as Autodesk Inventor and Solidworks.

Education

CAD

3D Printing

School Robotics

(March 2018 - June 2018)

Instructor

Teaching programming logic and applying the fundamentals to physical environments through the implementation of a line-following robot.

Teaching

Robotics

