

Edgar Alexis Oblitas Mantilla

Master Student



Completed bachelor's degree in Electronic Engineering in the Peruvian University of Applied Science. One year of experience in research assistant at the Advance Radar Research Center (ARRC). I am currently studying at the University of Oklahoma and working as a research assistant at the ARRC. I can develop software programs to control and automatize hardware and systems that perform characterization of antennas and materials.

Personal info

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Skills

- Programming
- Research
- Automation
- Artificial Intelligence
- Graphical User Interfaces
- Antenna Characterization and Calibration

Programming Languages

- MATLAB  Advance
- Python  Advance-Intermediate
- Linux  Advance-Intermediate
- Java  Intermediate
- Ruby  Intermediate
- TensorFlow (Python)  Basic-Intermediate
- Swift 5  Basic-Intermediate

Languages

- Spanish  Advance-Intermediate
- English  Advance-Intermediate
- German  Basic

Education

2002-2012

School Education – Weberbauer Schule School.

- Basic School Studies
- Language learnt: Spanish, English and German

2013-2022

Undergraduate – Peruvian University of Applied Sciences

2013-2015

– Civil Engineering

- Statistics
- Project management

2016-2022

– Electronic Engineering

- Software and hardware development
- Electromagnetics and wave propagation
- Computer vision and artificial intelligence

2022-present

Graduate – The University of Oklahoma

- Pursuing a master's degree in Electrical and Computer Engineering.

Projects

– Body Condition Score Measure Device for Dairy Cows

A device that detects the body condition score of dairy cows.

Python, TensorFlow, Image Processing, Graphical User Interface, Raspberry Pi

– Road Sensor

A sensor that detects the water level or ice presence on roads.

C++, Ruby, Swift, RF sensing

– S-band NF Scanner for Low Frequency Antennas

A system that integrates a phase array antenna's TR module, a VNA and a UR3 robotic arm system to measure the Near-Field data of the antenna

MATLAB, Linux, URscripts(Python), Automation, Graphic User Interface, Raspberry Pi

– mmWave RF Scanner for High Frequency Antennas

A system that controls VMX motors and a VNA to perform Near-Field and Far-Field measurements with high movement resolution for high frequency antennas (77GHz – 110GHz).

MATLAB, Automation, Graphic User Interface

Working Experience

2020

Research Assistant – Advance Radar Research Center

- Duration: one year.
- Phase array antenna characterization and calibration.
- NF scanning system development