

JOSUE MARTINEZ-MARTINEZ

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RESEARCH EXPERIENCE

MLEF - National Energy Technology Laboratory

Data Analysis and Machine Learning for Pressure Gain Combustion

June 2020 - August 2020 Morgantown, West Virginia

- Supervised learning and neural network algorithms to classify waves modes generated inside of a rotating detonation engine by the pressure gain combustion.
- Techs: Python, TensorFlow, Keras, SciKit-Learn, Matplotlib, Seaborn, NumPy and Pandas.

CIESESE - Ana G. Mendez University

A Secured IoT Scheme for Microgrids Monitoring

August 2019 - May 2020 Gurabo, Puerto Rico

- Security in an IoT network and a mobile application for microgrids control & monitoring to minimize the waste of energy.
- Techs: Android, UFW, LOIC, Metasploit, Firebase, Fail2Ban and XBees.

CIESESE - University of Texas at El Paso

UAV Assisted Power Plant Inspection in GPS Denied Environments

May 2019 - August 2019 Texas, United States

- Algorithm to avoid the non-GPS error of the UAV's and use sensors data for navigation.
- Techs: ROS, MavLink, uORB, JMavsim, QGroundControl, Optical Flow, Sonar and Intel Aero.

OSCAR Summer Program - Delaware State University

Magnetic Field Mapping with a Flux-Gate Sensor

June 2018 - August 2018 Dover, Delaware

- Algorithm to optimize the magnetic field data collection.
- Techs: LabView, Flux-Gate Sensor, Oscilloscope and Helmholtz Coil.

INDUSTRY EXPERIENCE

Tier 1 Security Information Analyst

Cortelco Systems PR Inc.

April 2019 - May 2019 Caguas, Puerto Rico

- During this internship I was doing reports of the security status of Cortelco clients.
- Techs: McAfee, Palo Alto, Webex Teams.

Project Engineer

Honeywell UAV Navigation Challenge

September 2018 - May 2019 Moca, Puerto Rico

- Extracurricular challenge were I have to organize the teams in order to meet the design requirements of the UAV.
- Techs: Ardupilot, Mission Planner, Microsoft Project, Raspberry Pi 3 B+ and Navio2.

PROFESSIONAL SKILLS

- Development

C++ JAVA SQL Python MATLAB
php html Firebase Git
TensorFlow SciKit-Learn Pandas
NumPy

EDUCATION

B.S in Science of Computer Engineering, Minor in PMP

Ana G. Mendez University, Gurabo Campus

August 2017 - May 2021

B.S in Science of Computer Engineering

Universidad Complutense de Madrid (Student Exchange)

January 2017 - July 2017

SCHOLARSHIPS

- Ing. Jose Romero Villanueva Scholarship - Scholarship for undergraduate students of computer engineering with GPA greater than 3.00. (August 2019)
- AEELA Scholarship - Scholarship for children of government employees with GPA greater than 3.00. (August 2015 - May 2019)

CERTIFICATES AND AFFILIATIONS

Lean Six Sigma Yellow Belt

Institute of Industrial and System Engineers

November 2018 - No Expiration Date

Chair

Association for Computer Machinery

August 2019 - August 2020

PUBLICATIONS

- "A Secured IoT Scheme for Microgrids Monitoring," 2020 10th Annual Computing and Communication Workshop and Conference (CCWC).
- "Unmanned Autonomous Aerial Navigation in GPS-Denied Environments", Proceedings of the LACCEI 2020.