

Academic Background

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| Universidad Carlos III de Madrid (Madrid, Spain) | Master's Degree in Robotics And Automation (2019-2021) | Master oriented to research & development field in robotics and automation. <i>Highlighted courses:</i> computer image processing, robot's operating systems, industrial robotics, smart autonomous robots, unmanned aerial vehicles (UAVs), automatization of industrial systems, medical and health robotics, intelligent transportation systems (ITS). |
| Universidad Hispanoamericana (San José, Costa Rica) | Electronic Engineering (2013-2018) | <i>Highlighted courses:</i> automatic control, telecommunications, systems analysis, electronic devices, systems design, operational amplifiers, and linear integrated circuits |
| Universidad Latina de Costa Rica (San José, Costa Rica) | CISCO CCNA IT Networking (2012) | <i>Highlighted courses:</i> CCNA1, CCNA 2, CCNA3 and CCNA4 |
| TECH Universidad Tecnológica (Madrid, Spain) | C1 Advanced English (2022) | |

Work**ISEMAREN S.L.**

(Madrid, Spain)

Renewable Resources Energy
ProductionCommissioning
Engineer
(2023 - Current)

- I'm in charge of designing, implementing and commissioning projects for Power Plant Controllers in Photovoltaic Plants by programming SCADA's and PLC's for automation production process, and installing batteries for EMS systems.
- I have responsibilities in the commissioning and maintenance of applications for plant control by deploying SCADAS and HMI for process operation
- Knowledge of International Electrical Regulations for photovoltaics and hybrid systems (solar + wind farm).
- Commissioning of BESS (Battery Energy Storage Systems) for increasing needs for system flexibility due to frequent changes in energy production.
- Implementation of SCADA applications for forecast energy production by using API's.
- Making reports of commissioning tasks and give in site training to the clients and online.

Xacom Comunicaciones

(Madrid, Spain)

Telecom

Project & Technical
Services Engineer
(2020 - 2023)

- I managed the design and implementation of systems for mobile coverage for industrial and residential sector by planning, coordinating, and executing projects for 2G, GSM, LTE and 5G deployment.
- I performed the tasks related with the management of the project including the coordination and execution of all the technical project's stages, including the coordination with the client for the developing of the strategy to follow.

Universidad Carlos III de Madrid

(Madrid, Spain)

Research School

Laboratory assistant
researcher.
Social Robotics Lab
(2019-2020)

- Developing data bases for license controls, using LAMP Stack (Linux, Apache, PHP and MySQL) for MINI Robots ©.
- Create apps by using Machine Learning and Deep Learning algorithms for image processing using Keras and Tensorflow libraries.

Boston Scientific(San José, Costa Rica) / Mapple Grove
(Minnesota, US)

Medical Devices Multinational Corp.

Supplier Engineer
(2014 - 2019)

- In was in charge of perform material qualifications process and vendor analysis for increase supplying capabilities.
- Developing apps by using PYTHON 3.0 for material acceptance tracking and
- I participated in innovation projects related to New Products' development, researching new technologies for manufacturing processes.

Hospira Holdings

(San José, Costa Rica)

Medical Devices Multinational Corp.

Equipment Calibration
Engineer
(2013)

- Executed a plan for process cost-reduction projects, moreover I developed PLC coding for equipment using Ladder & SFC automation language. Managed and negotiated with suppliers and make purchasing of devices and measurement equipment at optimum cost.
- I worked with PYTHON 3.0 apps for equipment control, machine design and developing automated control using Arduino, Raspberry Py and MATLAB for controllers.

Competences

Able to learn quickly about new technologies and programming platforms.

Soft Skills

Adaptability & Flexibility to fit with company's objectives and global goals.

Collaboration & Teamwork approach.

Willing to apply problem solving techniques & analytical thinking using creativity and innovation approach.

Coding Knowledge**ADVANCED:** Python, C++, HTML, LAMP Stack (Linux + Apache + MySQL + PHP), CSS, MATLAB + CISCO IT Networking, Arduino IDE, Raspberry Py, ROS, UNITY Pro, AI Machine Learning and Deep Learning, Wideshark, Deep Packing Inspection.**CERTIFICATED:** AI Neural Networks and DeepLearning, CCNA CISCO Networking.**OTHER:** Github, Google Colab, IpDoor Smart Video-Interactive Doors, RobotStudio, OpenCV, VisualStudio.**Language Certificates:**

C1 Advanced English

Mentions**HARDWARETHON 2019 COSTA RICA: A Technological and Innovation thinking multidisciplinary contest/ 3th Place Award****Honor Mention in Automation of Industrial Systems subject of master's degree, and Final Researching project in Carlos III University of Madrid.****\$22k Cost Reduction for equipment calibration process mention.****New Layout implementation for CER1 Electronic Calibration Laboratory.****Other: Spanish Passport**