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Academic Background

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. *Highlighted courses:* 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.
Universidad Hispanoamericana (San José, Costa Rica)	Electronic Engineering *(2013-2018)*	*Highlighted courses:* 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)*	*Highlighted courses:* CCNA1, CCNA 2, CCNA3 and CCNA4
TECH Universidad Tecnológica (Madrid, Spain)	C1 Advanced English *(2022)*	

Work

Xacom Comunicaciones (Madrid, Spain) Telecom	Project & Technical Services Engineer *(2020 - Currently)*	*I manage the design and implementation of solutions for mobile coverage needs for industrial and residential field by planning, coordinating, and executing projects for 2G, GSM, LTE and 5G deployment.* *Besides, I do research new technologies for telecom sector in order to solve scenarios where mobile coverage is needed such as subterrain tunnels, parking and industrial units, big buildings, theaters, and studios among other, and look for best technical solutions with project budgets suitable towards customer needs.*
Universidad Carlos III de Madrid (Madrid, Spain) Research School	Laboratory assistant researcher. Social Robotics Lab *(2019-2021)*	*-Data bases development for license controls, using LAMP Stack (Linux, Apache, PHP and MySQL) for MINI Robots ©.* *-APP´s development using **Machine Learning** and **Deep Learning** algorithms for image processing using Keras and Tensorflow libraries within Python 3.0 environment.* *-Use of IDE such as Visual Code, Xcode, Juputer Notebook, Google Colab among others to deploy apps.* *-I developed web apps for image recognition using neural networks and deep learning techniques.* *-Use Windows and Linux/Unix as main Operative System.*
Boston Scientific (San José, Costa Rica) Medical Devices Multinational Corp.	Supplier Engineer *(2018)*	*In charge of performing material qualifications process and vendor analysis for increase supplying capabilities. Looking through of product life cycle process management in terms of material supplier. Also, I did some material tests for acceptability criteria.* *Besides, I developed some 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.*
	Equipment Calibration Engineer *(2014 - 2018)*	*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.* *Also, 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

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 for the master's degree.

$22k Cost Reduction for equipment calibration process mention.

New Layout implementation for CER1 Electronic Calibration Laboratory.