

Francisco Ramos

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Industrial engineer/ Machine
Learning and CV Engineer

GitHub: curroramos
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Graduated in Industrial Engineering with mention in Automation at the ETSI of the University of Seville. Great learning capacity. Interested in Control and Automation Systems, Artificial Intelligence, Machine Learning, Data Analysis, Connected Industry, 4G Network Applications, Internet of Things, Robotics and Electronics.

SKILLS

Tools and Languages	Python, C, Bash, Dockers, Git , Tensorflow, Pytorch, Matlab , PLC programming
Quantitative Research	Control Systems, Robotics and Automation, Optimization, Machine Learning, Computer Vision
Communication	English (C1), French (A2), Spanish (Native)

TECHNICAL EXPERIENCE

Junior Machine Learning and Computer Vision engineer <i>Advanced Center for Aerospace Technologies - CATEC</i>	FEB 2022 — Present <i>Seville, Spain</i>
<ul style="list-style-type: none">• Crop monitoring using photogrammetry obtained by drones using Computer Vision and Cloud of Points.• Train and validation of object detection models to implement detect and avoid algorithms in drones.• Accuracy and inference time object detection benchmarking in embedded systems.• Study and implementation of state-of-the-art object detection models with transformers.	
Research intern / Application of ML and DL techniques for the optimization of an EV charging station <i>Systems and Automation Department US</i>	SEP 2020 — Present <i>Seville, Spain</i>
<ul style="list-style-type: none">• Study, modeling, and implementation of a unified system simulator of an EV charging station with renewable support.• Management optimization using time-series deep learning models to forecast charging load and energy production.	
Engineer / Electric Powertrain & Electronic systems department. <i>US Racing</i>	SEP 2019 — AUG 2020 <i>Seville, Spain</i>
<ul style="list-style-type: none">• High and low voltage electrical system of the electric motorbike.• Design of Battery Management System (BMS), inverter, motor, charger and telemetry.	

EDUCATION

Bachelor in Industrial Engineering, University of Seville, ETSI	2018 — 2022 (Predicted)
<ul style="list-style-type: none">- Top 1%. Grade: 8.72/10- 12 Mention with Honours- Final degree project: Charge demand and renewable generation forecasting with Deep Learning: application to electric vehicle station optimisation. (Mention with Honours)	
Additional Training Courses :	
- Neural Networks and Deep Learning, <i>deeplearning.ai</i>	2019
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, <i>deeplearning.ai</i>	2019
- Structuring Machine Learning Projects, <i>deeplearning.ai</i>	2020
- Convolutional Neural Networks, <i>deeplearning.ai</i>	2020
- Introduction to the Internet of Things and Embedded Systems, <i>University of California, Irvine</i>	2020
- Introduction to TensorFlow for AI, ML, and DL - TensorFlow Developer Specialization, Professional certificate, <i>deeplearning.ai</i>	2022
- Sequences, Time Series and Prediction - TensorFlow Developer Specialization, Professional certificate, <i>deeplearning.ai</i>	2022
- Convolutional Neural Networks - TensorFlow Developer Specialization, Professional certificate, <i>deeplearning.ai</i>	2022
Internship , Rockbrook International, Ireland	2012

ACTIVITIES AND ACHIEVEMENTS

Captain of the University football team of the School of Engineering of Seville	2018 — 2022
Collaboration grant from the ministry of education	2021
Volunteer, solidarity evenings and visiting disabled people.	
Member of the teaching staff. Confirmation Catechist. <i>Claret Seville School</i>	2020 — 2021
Excellence Grants in Colegio Mayor Guadaira	2018
Football player (Captain) 1st provincial division <i>Cádiz</i>	2017 — 2018
Elemental Music Grade Instrument: Violin. <i>Music Conservatory Rafael Taboada. Cádiz</i>	2010

PERSONAL SKILLS

Project management	Strong decision maker
Complex problem solver	Leadership
Entrepreneurial initiative	Innovative