

# CARLOS RODRIGUEZ ORDOÑEZ

## Industrial Engineer



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Málaga. Own vehicle

Professional college No. 2391

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Versatile, creative, ambitious and persistent

### LANGUAGES

**SPANISH:** native  
**ENGLISH (B2):** fluent  
**GERMAN (B2):** advance  
**FRENCH (B1):** basic

### COMPUTER SKILLS

*Confluence, Jira, KPM, Doors  
Solidworks, Catia, Siemens NX,  
CANoe, CANape, CAPL, C++,  
Python, Keras, Tensorflow, ROS,  
Matlab, Excel (VBA), PVSyst,  
Wordpress, HTML, CSS,  
MS Office, Adobe PDF*

### CERTIFICATES

- ✓ *IPC-A-610*
- ✓ *Electric Vehicle L1*
- ✓ *Driving N1 y N2*

### ACHIEVEMENTS

- Judge in Autonomous Vehicle at "Formula Student Spain 2022"
- Expert lecturer in ADAS, Master's Program ELTICA 2022 (UPC, SEAT)
- Award for the idea "Steering Robot Simulator" presented at the "SEAT Innovation Day 2021"
- Distinction: Second Best Master's Thesis for "Electrical design, consumption evaluation and energy management of an electric motorbike"
- Recognition "Platinum Curriculum" by the University of Jaén, 2016
- Student delegate of the Polytechnic School of Jaén at CEDEII 2015
- Finalist in the "EDP University Challenge 2012"

### PROFESSIONAL EXPERIENCE

**Systems Engineer** 2023 - 2024 Melbourne, Australia  
Industrial Engineering at SPX Aids to Navigation



- *Definition of technical system requirements*
- *Work planning for engineering departments*
- *Technical support and project monitoring*

**Solar Technical Support Engineer** 2023 Melbourne, Australia.  
Electric Engineering at Energis Pty. Ltd.



- *Design of residential and commercial photovoltaic solar systems (3 – 200 kW)*

**ADAS Function owner** 2016 - 2023 Martorell, Barcelona  
Electronic and Industrial Engineering at Seat S.A.



- *Evaluation and integration of lane-keeping functions (Lane Assist and Emergency Assist) for SEAT, CUPRA and AUDI vehicles.*



- *HW and SW testing of ECUs, CAN bus and Ethernet*
- *Error tracking and management, supplier liaison and changes implementation.*
- *Analysis and report, generation of results and system parameterization*

**Electrical Engineer at MotoStudent Electric** 2016 Jaén, Andalusia  
Electric Engineering at University of Jaén



- *Design and manufacturing of the electrical system for an electric racing motorbike*
- *Powertrain testing on test bench*

**Design Engineer (internship)** 2014 Aranjuez, Madrid  
Mechanical Engineering at Robert Bosch Gasoline System



- *Product design support*
- *Development of a tool for calculating error propagation due to manufacturing tolerances*

### ACADEMIC BACKGROUND



**Nanodegree Autonomous Driving with AI** 2020  
Udacity (online)



**Postgraduate Mechatronics Components & Systems** 2019  
Polytechnic University of Catalonia



**MSc. Industrial Engineering** 2016  
University of Jaén

**BSc. Electrical Engineering** 2014  
University of Jaén & DHBW Mannheim (Germany)