Daniel Carrión

Engineer & Designer



About me

Graduated in electronic engineering, robotics and mechatronics, with a master's degree in mechatronics. I love technology, specifically electronics and SoC programming. In my last years I have acquired programming skills in C/C++ and FreeRTOS with mCU thanks to projects like HortSost in which I got involved as a technician. As a researcher, I delved into the programming of RISC-V architectures and design of applications and wireless sensor network infrastructures framed in IoT projects.

Personal

- Daniel Rodríguez Carrión
- Spain
- (+34) 722 67 89 59
- DaniCampusIoT
- in danrodcar
- @ danicampusiot.github.io

Areas of specialization

C/C++ Programming · IoT PCB Design • 3D Design

· Electronic · Robotic & Control

Skills

Coding and Programming Data Analytics Data interpretation and Charting Active listening and Empathy Adaptability Continuous learning

Interests

SoC Programming / Automating processes Web Programming / Reverse engineering / Discuss

Languages

Spanish C2 mother tongue English B2 FCE Cambridge

Short Resumé

02/2022-09/2024

Technical staff & Research personnel

PROGRAMMER · COMPUTERS ARCHITECTURE DEPT., UMA 💡



- · I carry out programming and conditioning activities of the technical part of the HortSost II project of the University of Malaga.
- · Co-tutoring activities of final degree projects of students who were doing their work in my department.
- · I was in charge of the technical part of the adaptation of the greenhouse and its automation, where I learned the handling of various sensors and their electrical conditioning, programming (ESP32) and data management. I used MQTT and NODE-RED to send data and manage them in a UNIX server.
- · My final degree project, which was based on these activities, was awarded 2nd place in the Bizintek 22/23 Awards.
- As a researcher, I combined my master studies with the work in the department. I programmed in C/C++ and FreeRTOS with ESP32 a self-configuring sensor infrastructure that exchanged data for processing at the edge.
- · I made a publication and a talk at the national computer science congress titled "Auto-configurable wireless sensor network for edae computina".
- · I dedicated to the signal conditioning of the A121 radar sensor (60GHz PCR) for monitoring biometric signals in enclosed spaces.

06/2019-01/2020

Technical Staff

Worker · SITER 2000 ♀

- · In this company I was an intern for the first six months, performing consulting and study activities on GSM/DCS/UMTS and FTTH mobile network deployments.
- · I worked in a multidisciplinary team with a great working spirit, in which I was assigned As-builts and other engineering documents for the analysis of the correct installation of access points (AP) installed in educational centers.

DEGREES

2023 Master in Mechatronics **Engineering**

M.A. · University of Malaga



2023 Project Management of Photovoltaic Solar Installations: Solar Project Management

> M.A. · EUROINNOVA BUSI-NESS SCHOOL in

2021 Grad. Electronic engineering, robotics and mechatronics

> B.E. · University of Seville-Malaga 🏛

CERTIFICATES

PHP. JAVASCRIPT and 2020 MySQL developer

CERT. DEUSTO FOR-MACIÓN mm

RPAS pilot and radio 2019 operator

> CERT. Aerocamaras

Publication & Talks

Jun. 2024

"Auto-configurable wireless sensor network for edge computing", at: Spanish Congress of Informatics in A Coruña, Jun. 2024.