DANIEL PAYNO ZARCEÑO

Telecommunications & electronics engineer

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Madrid, Spain

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ABOUT ME

Telecommunications engineer with a deep passion for electronics and programming, specializing in embedded systems and Linuxbased operating systems. I enjoy embracing new challenges and contributing to innovative work environments.

EXPERIENCE

Hardware & firmware engineer **TycheTools**

August 2020 - April 2025

Madrid, ES

Company specialized in data center energy efficiency, focused on environmental monitoring, and cooling system control.

- Hardware engineering: requirement gathering, PCB design and manufacturing, assembly, prototyping, and testing. Purchasing management, communication with suppliers, and RFQs.
- Firmware engineering: design and implementation of embedded systems, including microcontroller programming, communication protocols, and sensor networks.
- **Software development**: development of Linux-based systems using Yocto, and implementation of C and Python applications.
- Data center experience: installation of sensor networks, cooling optimization and energy consumption management.

Electronic Research Internship GreenLSI (Department of Electronic Engineering, ETSIT)

May 2020 - August 2020

Madrid, ES

• Research and development of Bluetooth Mesh networks based on Nordic nRF52 microcontrollers.

TECHNICAL SKILLS

Programming languages:



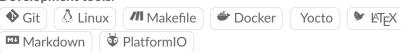
• Microcontrollers:

Nordic | **S**ESP ST ST

• Communication protocols:

UART I2C RS232 RS485 LoRa NFC MQTT | Modbus **SNMP** Raft

• Development tools:



• Design tools:

KiCad 2D/3D CAD **3** Blender

• Others:

NGINX | Mysoc SQL **API REST** Diango **FastAPI LVGL ∢** Flutter Raspberry Pi | Wireshark Jira Agile

EDUCATION

Master of Science in Electronic **Systems Engineering**

Universidad Politécica de Madrid, ETSIT

1 2021 - 2022

Madrid, ES

Final Master's Degree Project: Design and implementation of a sensor network for air quality monitoring (10/10)

TAWARD AWARD AND AWARD AND AWARD AWA 2022 academic year. Sponsored by Fundetel.

Bachelor of Engineering in Telecommunication Technologies and Services Engineering

Universidad Politécica de Madrid. ETSIT

1 2015 - 2020

Madrid, ES

Final Degree Project: Design and implementation of a MIDI controller for aerophone instruments (10/10)

LANGUAGES

Spanish

English



SOFTSKILLS

- Problem-solving: experience in project development with multi-disciplinary teams.
- Teamwork: ability to analyze complex situations and find effective solutions.
- Adaptability, flexibility: willingness to learn and adapt to new technologies and work environments.
- Agile methodologies, Scrum: experience in project management using agile methodologies.

OTHERS

• DIY projects: 3D printing, self-hosted **⊘**InfluxDB



- Design of electronic music devices.
- Driving license B and own car.