Rodrigo García León

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ABOUT ME

Telecommunications Engineer (R&D) with experience in RF projects, electronics laboratory work, particle accelerators, and resonant cavities. Specialized in designing electronics software and control systems for mid and high-frequency applications.

Passionate about particle physics and developing innovative solutions for laboratories and advanced technological projects.

WORK EXPERIENCE

Intern
GranaSAT (University of Granada) [09/2024 – Current]

City: Granada | **Country:** Spain | **Website:** https://granasat.space | **Name of unit or department:** GranaSAT | Aerospace Electronics Group - **Business or sector:** Professional, scientific and technical activities

- Knowledge in using oscilloscopes, VNAs, precision power analyzers, power supplies, and multimeters.
- Programming libraries for electronic measurement equipments such as oscilloscopes, Vector Network Analizer (VNA) and Precision Power Analyzer using SCPI or GPIB protocol in Python.
- Characterization of RF devices as splitters, circulators, loads, directional couplers, and cables using Vector Network Analyzer.
- THT and SMT components soldering .
- Knowledge in hand soldering, hot air gun, stencil and oven.
- PCBs design in Altium or similar.
- Analysis of analog circuits in LTSpice.
- Coaxial cables reparation.
- Repair of various electronic devices.
- Creation of electronic parts and assemblies in SOLIDWORKS or similar.
- Knowledge of 3D printing in PLA.
- Final project : Low Level RF Generator based on Adalm Pluto. (ongoing)

EDUCATION AND TRAINING

Bachelor Degree in Engineering Telecommunication Technologies
University of Granada [09/2021 – Current]

City: Granada | **Country:** Spain | **Website:** https://www.ugr.es/en | **Field(s) of study:** Engineering, manufacturing and construction: ● Electronics and automation | **Type of credits:** ECTS | **Number of credits:** 240 | **Thesis:** Development of a video system based on FPGA

- VHDL design and implementation using the Quartus environment and DE-10 Lite hardware.
- Analog design and simulation in PSpice and LTspice.
- PCB design in OrCAD.
- Programming languages learned: Java, C, C++, Matlab, and VHDL.
- Protocols learned: UART, SPI, I2C.
- Basic knowledge of designing and modeling parts in SolidWorks.
- Arduino and ESP32 programming.
- Knowledge of basic electronic equipment.
- General knowledge of digital signal processing.
- RF circuits and microwaves.

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING B2 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

programming: Python, MATLAB and SQL / Microsoft Office / Latex / installation and configuration of network devices: routers, switches / RouterOS (MikroTik) / Sniffers / JSON / Web Development / Serial Communication Protocls / CSS / HTML / JavaScript / Node JS / Linux / Git / Python / Microsoft Word / Messaging (MS Outlook, Apple Mail, Mozilla Thunderbird) / KiCAD , Altium CAD tools / Autocad and Solidworks / Matlab/Simulik

DRIVING LICENCE

Driving Licence: B

HOBBIES AND INTERESTS

Electronics, RF and DIY electronic devices.
Write here the description...

Social and work meetings

Web design and development

COMMUNICATION AND INTERPERSONAL SKILLS

Teamwork, empathy and labor integration.

COURSES

[10/2024 – 02/2025]

University of Granada Microcredential: Mechanical Design and Thermal, Fluid, and Structural Simulation with SolidWorks.

- Design and modeling of parts and assemblies using SolidWorks.
- Creation of complex assemblies and management of component mates to ensure proper fit and operation.
- Thermal simulation to assess the behavior of materials and components under temperature conditions.
- Fluid flow simulation in assemblies to predict performance and improve efficiency in applications involving cooling systems or fluid dynamics.

Link: https://drive.google.com/drive/u/0/folders/1icFr1ZsRZrqeGizT4NlgdYKLGNXaTbiO

[03/2025 – 06/2025]

Electronic simulation in HFSS for electronic design.

- Antennae design (bow tie).
- Simulation and optimization of resonance cavities.
- Analysis of parabolic, yagi uda and dipolo antennae.
- Waveguide design.
- SRIM (particle physics).

PROJECTS

[09/2020 – 08/2022]

Beyl (Startup)

"Beyl" was a B2B software for personal trainers my Co-Founder and I developed while finishing High School. We were able to create a full functional software which was used by trainers all over Spain and managed to enter in the most important startup accelerator in Spain, Lanzadera. Where I received numerous trainings from the most important entrepreneurs in Spain.

Link: https://www.instagram.com/beyl_fit/