CELIA HERMOSO DÍAZ

Embedded Systems Master's Student at EIT Digital

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EXPERIENCE

Research intern at EPFL Power Electronics Laboratory
École Polytechnique Fédérale de Lausanne (EPFL)

📅 June 2021 - August 2021   📍 Lausanne (Switzerland)

- Developed of a Graphic User Interface for a Design Optimization tool of Medium Frequency Transformers.

Worldwide Product Marketing Engineering Intern
Texas Instruments, Department of Marketing

📅 July 2020 - September 2020   📍 Munich (Germany)

- Portfolio analysis of Low Power DCDC components.

Ladybird Guide to Spacecraft Communications 2020
ESA Education Training Centre in ESEC-Galaxia

📅 18th-21st February 2020   📍 Transinne (Belgium)

- Formal interactive lectures provided by an ESA Engineer from the Operations Department of ESOC.
- Designed a communications system for a mission to Europa.

Team member
GranaSAT Electronics Aerospace Group

📅 July 2018 - February 2019   📍 University of Granada (Spain)

- Developed a satellite as part of the application for BEXUS, a project backed by the European Space Agency.
- Mechanical engineering technician: Mechanical design of printed circuits boards using SOLIDWORKS.

EDUCATION

Double Master's Degree in Embedded Systems
KTH Royal Institute of Technology
Eindhoven University of Technology

📅 September 2021 - Present

- European Institute of Technology and Innovation EIT Digital Master School dual degree program in Embedded Systems.
- Summer School on Solutions for Healthier Digital Cities, University of Rennes I (France).

Exchange Program in Electronics Engineering
École Polytechnique Fédérale de Lausanne (EPFL)

📅 September 2020 - July 2021   📍 Lausanne (Switzerland)

- **Bachelor End Project** at EPFL Spacecraft Team. Responsible for the Electrical Power System of CHESS, a constellation of 3U satellites in Low Earth Orbit.

Bachelor's Degree in Telecommunications Engineering
University of Granada

📅 September 2017 - July 2021   📍 Granada (Spain)

SKILLS

C	●●●●◐
CUDA	●●●○○
LaTeX	●●●●◐
MATLAB	●●●●●
OrCAD	●●●◐○
Python	●●●○○
SOLIDWORKS	●●●●○
VHDL	●●●●◐

TECHNICAL PROJECTS

- FIFO library and image processing for a CompSOC platform
- Optimization techniques for 1D and 2D convolution implementation with CUDA
- Logistic control of silicon wafers in an EUV ASML waferscanner with the mCRL2 toolset
- Wireless Sensor Network design for aquaponics greenhouse monitoring application using Cooja simulator in Contiki OS
- **EPFL Spacecraft Team**. Design and Simulation of the Electrical Power System of 3U CubeSat in SSO and Elliptical Orbit for CHESS mission

ENTREPRENEURIAL PROJECTS

- **Innovation Space Center of Eindhoven University of Technology**. **Start up development.** SEEK provides advice on current assistive technologies for improving visually impaired people independent living.
- Design of a new corporate business initiative for recycled E-bike batteries.

LANGUAGES

Spanish	Native
English	FCE B2 and TOEFL 101
French	Diplôme d'études B2

ADDITIONAL INTERESTS

Leadership. Empower high school female students toward STEM majors in college through a summer school.

Sports
- Top five in age-group at Triathlon Nationals 2021
- Bronze Medal Spanish Snowboard Championship 2015
- High performance athlete 2016-2017
- Professional ballet studies 2011-2015