

CELIA HERMOSO DÍAZ

Embedded Systems Master's Student at EIT Digital

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in celiahermosodiaz



EDUCATION AND TRAINING

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 CHES, a constellation of 3U satellites in Low Earth Orbit.

Bachelor's Degree in Telecommunications Engineering

University of Granada

September 2017 - July 2021 Granada (Spain)

EXPERIENCE

Research intern at EPFL Power Electronics Laboratory

École Polytechnique Fédérale de Lausanne (EPFL)

June 2021 - August 2021 Lausanne (Switzerland)

- Developed 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.

DIGITAL SKILLS

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

LANGUAGES

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

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 wafer scanner 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 CHES 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.

ADDITIONAL INFORMATION

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.