Hardware/Software Embedded Systems Engineer

Employment Type: Permanent, full-time
Location: Campo Grande, Lisbon, Portugal

About Us

Celestia Portugal (C-Jet Unipessoal, Lda) is part of Celestia Technologies Group (CTG) an international technology group developing solutions for Aerospace, Defence, Telecommunications and Scientific markets. There is a rich pedigree of Product Development in Antenna, RF and Modem design for different Satcom & Terrestrial Systems.

The Celestia team have embarked on a challenging programme to design an innovative PhasedArray Antenna solution for a High Throughput Satellite Megaconstellations. This is a large ESA (European Space Agency) programme with several phases and milestones.

With increasing commitments and anticipated growth, we are now seeking to hire several engineering roles across a broad range of technical domains including **Antenna**, **RF**, **Signal Processing**, **Beamforming**, **Digital design** or **Real-time Software**, respectively.

In keeping with a hi-tech start-up culture, we expect our engineers to have a positive 'can-do' attitude together with good inter-personal and social skills. We are an equal opportunity employer committed to building an inclusive welcoming work environment where everyone is productive and able to maximize their individual potential.

Baseline Required Skills, Knowledge & Experience:

- Knowledge of modern processor architectures and platforms for embedded systems
- Experience in developing embedded systems (e.g., FPGA, Systems-on-a-Chip etc.)
- Be able to understand the requirements to develop the platform's firmware and related design tools and flow
- Broad expertise in design techniques and verification strategy
- Familiarity with software configuration management tools, defect tracking tools, and peer review
- Proficient in MS Office tools and competent working on either Windows or Linux
- Project management skills, methodical and organized work
- Language skills: Portuguese and English (Spanish will be considered a plus)
- Good interpersonal skills, positive mindset towards customers and colleagues
- Degree in Electronic Engineering, Computer Science or similar

Embedded/FPGA System Engineer requirements:

- Knowledge of digital I/O standards such as SPI, GPIO, LVDS, CAN, I2C, FlexRay, USB
- Solid programming skills in low-level programming, C/C++, Python and Shell scripts
- Experience designing custom processor PCBs using most common eCAD tools (Altium, Kicad)
- Familiarity with the most modern microcontrollers architectures (8/16/32 bits).
- Experience in digital system and IP core design using HDL tools (VHDL, Verilog, HLS)
- Experience in working with Linux Kernel, BSP generation
- Solid programming skills in low-level programming, C/C++, Python and Shell scripts
- Experience with SoC-FPGAs is a plus.

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Role & Responsibilities:

- Design, develop, code, test & debug a digital systems
- Validate own designs to demonstrate that they meet its performance requirements.
- Proactive and take ownership of own tasks; plan and execute in line with project needs.
- Document and disseminate your works in line with project's expectation.
- Availability for short travels abroad (mainly to UK, Spain or Netherlands)
- Report to the Technical/Project Manager
- Successfully engaging with internal and external stakeholders
- Participate in key engineering meetings with the customers.
- Supervising and mentoring junior engineers

We endeavour to respond quickly to all applications so if interested please submit your CV in English via email with a short introduction to **info@celestia-portugal.pt**

What we offer:

- Attractive job in space industry
- Start-up company culture and mindset with lean processes
- Hybrid work environment (office/home-office)
- Culture of ownership and transparency (room for personal initiative and development)
- Pleasant workplace in modern well-equipped office
- Collaborative and friendly colleagues (office language – English/Portuguese)
- More than 22 days of holidays a year

Key Words

FPGA, SoC-FPGA, VHDL, SPI, GPIO, LVDS, CAN, Device Driver, Embedded Software, Firmware, Low-level programming, C/C++, Python

More information

Please visit:

http://www.celestia-portugal.pt/

http://celestia-tech.com/

https://www.celestia-uk.com/