Diogo Correia

Embedded Software Engineer

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SKILLS

Technical

- C Programming
- Device Drivers Development
- Real-Time Operating Systems (Zephyr)
- Test-Driven Development
- Makefile and CMake
- Embedded debug: GDB, SystemView, Protocol Analyzer, Oscilloscope
- Docker
- CI/CD (with Jenkins)

Languages

- Portuguese (Native)
- English (B1)
- German (A2)

EXPERIENCE

Embedded Software Developer   May 2024 – Current
Grandcentrix GmbH

- Development of FW for multiple products using Zephyr RTOS

Researcher   Aug 2020 – Apr 2024
Fraunhofer AICOS

- Development of device drivers (sensors, RTC, GPIO expander, and WiFi module) and HALs for the nRF52 and nRF53 families using the nRF SDK and Zephyr RTOS
- Responsible for porting our internal SDK from the nRF SDK to Zephyr RTOS
- Developed a Docker image with all dependencies required to develop with our internal SDK. The tool has shortened the setup time for new projects and reduced issues related to dependencies' management.
- Development of a middleware in Python to interact with BLE Mesh and DALI nodes.
- Part of a 3-man team developing a wireless low-power video transmitter

Research Assistant *(part-time)*   Aug 2018 – Jul 2020
Fraunhofer AICOS

- Developed a small sport tracker to be embedded on a surfboard
- Developed a low-power composting monitoring device (LoRaWAN)

EDUCATION

Master of Science in Electrical and Computers Engineering   2015 - 2020
University of Porto – Faculty of Engineering
Major: Telecommunications, Electronics and Computers
Minor: Microelectronics and Embedded Systems