Pedro Oliveira

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April 10th, 1989

Software Engineer

Education

University of Minho	Portugal
M.E. Electronics and Computers Engineering	2008 – 2013

- Major in Embedded Systems.
- Major in Power Electronics.

Work Experience

Synopsys	Porto, Portugal
Embedded Software Engineer	2017 – Present

- Worked on trusted execution environments.
- HDCP protection for HDMI and DisplayPort interfaces.

CEiiA	Porto, Portugal
Technical Lead & Software Engineer	2014 – 2017

- Board bring up and system design of mobility devices for control and tracking.
- Responsible for training, leading, mentoring and recruiting within the team.

Coreworks	Lisbon, Portugal
FPGA / ASIC Design Engineer	Feb. 2014 – Aug. 2014

- Design and verification of real-time multi-core systems for audio codecs.
- Responsible for converting the SoC bus and IPs from AMBA AXI to Avalon.

Skills

Programming:
- C, C++, Python, Shell scripting
- HTML/CSS
- Java, JavaScript

Embedded Linux and RTOS:
- Buildroot, Yocto/OpenEmbedded
- U-Boot, BusyBox, Crosstool-NG
- MQX, FreeRTOS, Xenomai
- Device Driver Development, IPCs

Language:
- **Portuguese**: Mother tongue.
- **English**: Fluent.
- **German**: Good.

Tools:
- GNU Toolchains, Makefile, Autotools, vim, gdb, Valgrind.
- Git, SVN.

Other:
- iptables, ARP
- GoogleTest, CppUTest
- Cryptography
- Verilog, VHDL
- SQLite