Bruno Eduardo de Oliveira Meneguele

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Brazilian, 25 years old

Academic Degree

- Bachelor in Computer Engineering at Federal University of Technology of Paraná (UTFPR) on December 2015, Curitiba – Brazil, 5 years long.
- Incomplete Master degree in Distributed Systems Engineering at Dresden University of Technology, Dresden – Germany, 1 year long.

Previous Job Experiences

- Internship over 9 months at Unify (formerly Siemens Enterprise Communications), Brazil, Hardware R&D department.
- Engineer at SmartGreen, since August 2015, working with Embedded Linux devices, developing services and applications to manage ZigBee networks for IoT solutions.

Qualifications

- Advanced knowledge:
  1. Programming languages: C, Python, Shell Script and Qt/C++.
  2. Embedded systems: hardware and embedded software design and project, either with smaller systems like 8 bits microcontrollers architectures and bigger ones with Embedded Linux Operating System and U-Boot bootloader (mainly over ARM system architecture. Experience with small changes internally to the Embedded Linux Kernel.
  3. GNU/Linux Operating System: knowledge of its internal structure, working flow and command line tools. Seven years of daily usage experience.
  4. Information security: software vulnerabilities (particularly those related to C and C++ programming languages) and cryptography schemes like digital signatures, public-key infrastructure, and so on.
  5. Network: experience mainly with TCP/IP and ZigBee protocols.
  6. Git: distributed version control system and its working flow (mainly Gitflow).

- Intermediate knowledge:
  1. Programming languages: Java.
  2. Hardware description language: Verilog.
  3. Unity test, mainly in Python.
  4. Linux Kernel internals: theoretical knowledge on some subsystems such as Memory Management and File Systems, and some basic projects on device drivers (Embedded Linux).
  5. MySQL and PostgreSQL databases.

- Languages:
  - Portuguese – Native language.
  - English – Advanced reading. Advanced writing. Advanced listening. Intermediate speaking.
  - German – Basic reading. Basic writing. Basic listening.

Additional Information

- Master Degree Programme of Distributed Systems Engineering at Technische Universität Dresden (TUD), Dresden – Germany, for one year. Unfortunately not finished, total of 2 years needed.

- Speaker at The Developers Conference about Embedded Linux Kernel and Bootloaders. Location: São Paulo, Brazil, 2016.

- Previous internship, at Unify Brazil: deployment and maintenance of hardware platforms (FPGAs and CPLDs) for automatic tests of network protocols in new equipments.

- Volunteer for 1 year as undergraduate researcher at Federal University of Technology of Paraná (UTFPR), Brazil, in the TruEGrid project in partnership with Technische Universität Dresden (TUD) in the field of embedded information security for communication among Smart Grid devices (smart meters).

- ARM Corte-M3 and Information Security dedicated hardware experience (CryptoAuthentication and Trusted Platform Module) applied to the final course work of Computer Engineering at UTFPR.

- Six months as undergraduate researcher at Federal University of Technology of Paraná (UTFPR), Brazil, in a Medical Engineering research project titled “Tratamento de imagens de Ressonância Magnética e Térmicas para reconstrução de modelos 3D” (Processing of Magnetic Resonance Images and Thermal Image for 3D Models). C++ development.

- Student in a short course of Embedded Linux for Freescale ARM Cortex-A8 processors family. Location: São Paulo, Brazil.

- Participation for two consecutive years in the Street Smarts: The Freescale Cup, sponsored by Freescale Semiconductors. The main goal was to develop an autonomous navigation robot (hardware design and embedded software project for a PowerPC microprocessor) with limited sensors, like camera and light sensors. Location: São Paulo, Brazil.

- Experience with ARM Cortex-M3 microprocessors family for academic usage, also with Real Time Operating System (CMSIS-RTOS).