

ALISSON JODY TANAKA (CREA: 5063076608)

Brazilian – Married – 37 years (25/10/1985)
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More than 15 years of experience at Product Engineering Area, creating (bring up) and developing firmwares, I love embedded systems, optimizing source code, improving performance and risks control, RTOS (Real Time Operation System) and Embedded Linux Systems, diversity of applications and systems to support devices developments and integration softwares for them.

TARGET

- ✓ Senior Software Engineer.

SCHOOL HISTORY

- ✓ **Computer Engineering**
Universidade São Judas Tadeu (USJT) Concluded December 2008.
- ✓ **Eletronic Technician**
ETE Prof. Aprício Gonzaga Concluded June 2002.

COURSES AND TRAINING

- ✓ Agile Management Software Projects with Scrum (Caelum).
- ✓ Yocto Project (Embedded Labworks).
- ✓ Embedded Linux (Embedded Labworks).
- ✓ Linux Device Drivers (Embedded Labworks).
- ✓ Microcontrollers – LPC 2138 NXP. (Labtools).
- ✓ Training LPC 24XX – uC Linux (Karimex - NXP).
- ✓ Verification and Validation of Space Systems (INPE).
- ✓ Seminar Embedded Linux 2015 (Android, Yocto Project, etc) (embarcados.com.br).
- ✓ Internal Trainings Nagra (OpenTV, DVB) Digital TV structure.
- ✓ Visual Basic, Delphi, Page Maker, Corew Draw.
- ✓ Advanced Microsoft Excel.
- ✓ MS Visio and MS Project.

LANGUAGES

- ✓ **English** – Advanced (OpenEnglish/Uptime Consultants/Skill)
- ✓ **Japanese** – Intermediate (Noryoku Shiken – Level 3).
- ✓ **Spanish** – Intermediate (Integration with partners).

KNOWLEDGE

- ✓ Hard Programming C, C++.
- ✓ Programming Assembly and Java.
- ✓ Linux Architecture to Embedded Systems (bootloader, kernel, rootfs).
- ✓ Kernel Modules Development, drivers.
- ✓ SQL Lite to embedded devices.
- ✓ Shell scripts, makefiles and bit bake (compile systems).
- ✓ Microcontrollers Architecture, Eletronic and Logic Circuits.
- ✓ Communication Protocols. (TCP/IP, FTP, owner protocols, etc.).

- ✓ Good vision to debugging specific problems and complex systems (many types of environment, many types of JTAG (IAR, KEIL, ST Microconnect, XDS100/110).
- ✓ Automotive Systems, board computers, telemetry systems, fleet control, file systems.
- ✓ User interface concepts, applications and integration systems.
- ✓ RTOS (uC/OS-II, RTX, TI-RTOS), tasks, priorities, mutex and semaphores.
- ✓ Bluetooth (EDR and BLE), WLAN, LAN, ZigBee Modules, CD Module.
- ✓ GPRS (GSM) Siemens, multiplex protocol, TCP, FTP, AT commands.
- ✓ AD, UART, PWM, RTC, PLL, I2C, SPI, Timers, interruptions, etc.
- ✓ Compilers (CCS, Keil, IAR, MPLab, NEC, GDB).
- ✓ Version Controllers (GIT, SVN, Perforce, MS Visual SourceSafe, Clear Case).

PROFESSIONAL HISTORY

Senior Software Engineer.

EiTV (Set/2021 ~ Current)



- Software development to Setop Boxes.
- UI based on Qt and buildsystem is buildroot provided by vendor. We managed the features.
- Apps based on Embedded Linux (using some features like LXC, dm-crypt/dm-verity, etc).

Master Programmer.

Prodata Mobility Brasil (Mar/2017 ~ Set/2021)



- Integration with partner Companies in Argentina and Colombia (Bogota).
- Responsible to develop all solutions to clients, creating and implementing it.
- All systems based on Embedded Linux.
- Linux Applications to all Brazilian's Billing System for Public Transport.
- Wifi router applications, integration with many partners applications.

Development Engineer.

Biologix Sistemas Ltda (May/2016 ~ Nov/2016)



- Responsible at firmware development to medical devices.
- Assembly prototypes (microcomponents), tests and validation of hardware project.
- TI-RTOS, CC2640, BLE 4.0/4.1, IoT concept, all system is very low consumption, integration with cellphone software application.
- Cryptography Algorithms to security (XTEA, SHA-256, RSA, etc).

Software Engineer.

Nagra Media Brasil (Apr/2012 ~ Apr/2016)



- Nagra middleware integration (OpenTV and Livewire).
- Many types of Architecture, due many STBs models.
- Embedded Linux (ST and Broadcom chipsets).
- Many teams Interaction (USA, France, China, India e Netherlands).

Firmware Development Engineer.

COMPSIS Computadores e Sistemas (Jul/2010 ~ Mar/2012)



- Improved test procedures of QA team.
- Improved ZigBee communication performance.
- Board computer and server communication, as telemetry and user data to monitoring.

Software Engineer.

Visteon Automotive Systems (Feb/2010 ~ Jul/2010)



- Responsible to development CD Module of car radio.
- Interaction with many professionals/engineers.

Project Engineer / System Analyst.

Auteq Telemática S/A (Mar/2008 ~ Jan/2010)



- Responsible to GPRS communication (telemetry and user data).
- Responsible at interaction between hardware and firmware like PCB revision.

Project Eletronic Technician.

Samtronic Indústria e Comércio Ltda (May/2007 ~ Mar/2008)



- Assembly and C codifying at microchip and NXP (Phillips) uC.
- Motor Control, ultrasom and IR sensors to detection bubbles and controlling infusion speed.