Embedded Software/Firmware Developer

Roman Leonov

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Current location:
Moscow, Russian Federation

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Embedded Software Engineer with 10+ years of experience in firmware and software development.

Architect development since 2014.

Team leading since 2017.

CORE COMPETENCIES
- ARM Cortex M0/0+/3/4/7/33 series
- Secure Coding: C and Assembler languages
- RTOS (kernel, drivers, HAL, e.t.c)
- PKI and cryptography
- Electronic circuits and PCB design development

Professional Experience

ARDS ZAO, Moscow, Russia (https://www.aladdin-rd.ru/)
Embedded Software Team Lead // Jun 2017 – Present (4 yrs 8 mos)
- Tech leading a team of embedded developers;
- Security architecture building and developing with cryptography protection usage;
- Defining and developing various proprietary security implementation of transport channels over different types of USB protocols (Mass Storage, CCID, HID);
- Performing advanced analysis and identifying weak sides related to security in devices code;
- Creation and maintenance of product and code documentation.

ARDS ZAO, Moscow, Russia (https://www.aladdin-rd.ru/)
Embedded Software Developer // Dec 2014 – Jun 2017 (2 yrs 7 mos)
- Firmware development for different USB devices: RTOS core, HAL drivers (usb, uart, spi e.t.c) and high level logic for Freescale, NXP, ST and Nordic microcontrollers;
- Designing, developing of proprietary secure bootloaders logic within the requirements depending on a product;
- Designing, supporting and maintaining of different devices for batches from 450k pieces and larger;
- Integrated code coverage for code quality amelioration;
- Designed the architecture of a modular system with uploading parts for embedded devices to simplify maintenance of different products.

WWPASS Corporation, Moscow, Russia (https://www.wwpass.com/)
Firmware Developer / Hardware Engineer // Mar 2012 – Nov 2014 (2 yrs 9 mos)

- PCBs development for NFC smartcard readers and NFC usb tokens;
- Designing and prototyping of cases, assembling and milling (with CNC mill machine and 3D Printer).

NIIRET BMSTU, Moscow, Russia
Firmware Developer / Hardware Engineer // Sep 2011 – Feb 2013 (1 yr 6 mos)
Developed firmwares for:
- Remote controller of antenna driver system for student educational curriculum with distant client application;
- Automatic frequency generator control unit (based on electronic frequency synthesizer) in the heterodyne part of GLONASS receiver.

EDUCATION
Bauman Moscow State Technical University, Moscow, Russia
Engineer with specialty in Radioelectronic Systems, June 2013