

Guy Pavlov

Toronto, ON, Canada | +1-415-494-1091 | guy.pavlov84@gmail.com | <https://github.com/gpavlov2016>

Experience

QUALCOMM

2016 – 2018

Staff Firmware Engineer. Developed the next generation of wireless technology based on mmWave (60GHz) 802.11ad standard. Features – Radar, Secure Boot and Roaming. RF/analog components and extremely real-time signal processing based on HW offloading.

INTEL

2012 – 2015

Firmware Technical Lead. Delivered firmware for several Intel flagship products such as Skylake and Cherry Trail

- Led team of five engineers, decided on priorities, assigned tasks and mentored new engineers
- Developed firmware using C for ARC, SPARC, minutelA arch running ThreadX and Minix based RTOS
- Debugged system level issues involving HW, FW and BIOS appearing during boot stage and power transitions
- Drove integration efforts with host OS (Windows) collaborating with firmware kernel teams, BIOS engineers and Microsoft engineers responsible for TPM driver. Supported WHCK certification for five projects and three OS
- Defined architecture for firmware white-box testing to automate manual tests
- Drove team transition to agile methodology by modifying SCRUM to fit team needs

NUVOTON (FORMERLY WINBOND)

2005 – 2012

Firmware Team Leader. Held several positions from developer to team lead. Delivered firmware for mass production devices (>1M units)

- Defined and led implementation of new security feature involving manufacturing process modification, integration with third party vendor and firmware modification. Successfully launched new product with volume of 1M+ units
- Provided on site production line support for customer issues. Resolved production gating issue for Dell in four days including daily status updates to Dell's senior management
- Led execution of more than dozen test cycles (each > week long), including performance and power testing. Defined test strategies and acceptance criteria, contributed to test definition documents.
- Wrote collateral documentation for customers and developed configuration tools and scripts
- Developed firmware for JTAG device with offline flash programming capability using USB Mass Storage protocol
- Developed low level firmware drivers for I2C and SPI using logic analyzers and oscilloscopes for debugging
- Developed ROM code and boot loader for BMC device based on ARM926 MCU including secure boot solution and DDR3 memory controller configuration including board bringup.
- Successfully completed Tegra board bringup running Linux including debugging Linux TPM driver

INTERNET GOLD

2002 – 2005

Tech Support Representative. Helped users to solve connectivity problems. Monitored the whole company network and coordinated cross functional teams to resolve problems. Awarded technical support excellence prize.

Education

Udacity Self Driving Car Nanodegree

2016 - 2017

- Curriculum co-developed with major players in the industry with hands-on projects including real car
- Deep Learning, Computer Vision, Sensor Fusion, Localization, Control, Path Planning

Udacity Robotics Nanodegree

2017 - present

- Curriculum: ROS, Kinematics, Perception, Controls, Deep Learning

Hult International Business School (MBA)

2015 - 2016

- Entrepreneurship challenge – developed navigation device for bicycles using Bluetooth Low Energy including Android application and wearable device based on Texas Instruments SensorTag IoT device

Open University of Israel

2005 - 2008

- Master's of Science in Computer Science, thesis subject: "Fairness in P2P networks" (not completed)

Open University of Israel

1996 - 2003

- Bachelor's of Arts in Computer Science (with honors)