Igor Pchelnikov

t. +31 6 20 44 13 95 | gopchelnikov@gmail.com | https://ipchelnikov.github.io

SUMMARY

- 10+ years of software development experience
- Solid skills in C++ and Linux (Android) based system development
- Deep understanding of the development processes from requirement analysis to implementation design and deployment

SKILLS

Languages: C, C++17, STL, Design patterns
OS: Embedded Linux (AOSP), ARMx64
Development Tools: GDB, Valgrind, LLVM tools, Visual Studio
Management Tools: Confluence tools, Jira
Version control: GIT, SVN

WORK EXPERIENCE

Jan 2019 – Present - Lead Software Engineer, BOSCH

C++17 | embedded Linux | AOSP | ARM x64 | AOSP HAL | I2C | MIPI | FPGA
Work on embedded system (AOSP and Linux based) for security and automotive cameras. Lead two camera projects: Auto valet parking stereo camera (Mercedes project), 2. High end security camera (Bosch US project). My responsibilities as lead engineer are containing but not limited to the following:

- Bring up Android system on ARM x64 chip
- Implement low level design for camera sensor drivers
- Implement variety image processing features using C++17
- Discovering bottlenecks in the system and work on the platform stability. Analyzing core dumps. Investigating interposes communication - IRQs

Jun 2017 – Nov 2018 – Lead Software Engineer, Netcracker (NEC company)

Android/iOS cross platform development | React Native | NativeScript | JS | HTML
I worked at Netcracker as a lead of a distributed team developing solutions for telecom

- Improved release quality by integrating CI procedure on Jenkins to the delivery process
- Improved collaboration with a remote team and overall team performance by facilitating regular meetings (Scrum, sprint planning, demo meeting, etc.)
- Developed a project plan for a cross-platform mobile application (~2000 man/hours)
- Worked on researched and developed of the mobile application using React-Native and NativeScript

Sep 2014 - May 2017 – Team leader, MERA

C++11 | embedded Linux | AOSP | ARMx64 | RTP/RTSP | H264 | Bluetooth Audio | NFC
Led eight-engineers team working on a cutting-edge collaboration desktop device based on ARMx64 and running Android OS. The team was responsible for bringing up the device, Google certification, platform stability, security, recovery mode and other platform specific functionality.

- Analyze requirements, create and estimate development stories according to the project plan
- Improved system stability. Fixed bugs on start up by analyzing core dumps and kernel messages
- Developed low-level hardware specific features for the product
- Coordinated work with remote hardware development team in Taiwan
- Built stronger relationships with the customer by improving the visibility of internal processes

– Senior Software Developer, MERA

C++03 | Parallel computing | Red Hat Linux | SIP/SDP | RTP/SRTP | TCP/IP stack | TLS

Worked on high loaded (8k simultaneously calls per server) audio bridge for conferencing based on Red Hat

- Developed new service pack for the product including several major updates like moving from x32 to x64 architecture
- Fixed performance bottle necks in the system by analyzing behavior under high load using SIPP and RTP traffic generators. Annalise call flow and RTP streams and using Wireshark
- Fixed memory usage issues in the product using analysis tools such as Valgrind
- Became a subject matter expert of the product and share the expertise with newcomers and other teams by conducting tech talks and tech transfers

EDUCATION

State University of Nizhniy Novgorod named after N.I. Lobachevsky (UNN)

2005 – 2011– Informatics and mathematics,

Grade: Informatics and mathematics in the analysis of economic systems and business