Taras Zakharchenko
Senior C/C++ software engineer

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General info

Birthday July 11, 1989
Education

- NTUU "KPI", MS, "Radioelectronic Devices" 2006-2012
- NTUU "KPI", PhD, "Information Technologies" 2012-2015.

Desired position

C/C++ Engineer

Experience

GlobalLogic 2016-Current

My competence is networking.

- Network Packet processor API design;
- Network Packet processor ASIC simulation development;
- Embedded LUA based CLI commands design;
- Auxulary python scripts development;
- Network managing protocols: NC-SI, MCTP, PLDM;
- Networking chips firmware development

Video Internet Technologies 2011-2016

My competence is: embedded systems, computer vision, machine learning

- Computer vision: OpenCV and CV-algorithms implementation;
- Machine learning: ML algorithms implementation;
- Software performance optimization;
- Firmware design for ARM MCU based devices;
- Software porting to embedded Linux;
- Parallel computing with CUDA.

National Technical University of Ukraine "KPI" 2013-2015

- Designed and taught "Embedded software" course;
- Assistant on "PCB Design" course.

Skills

Programming languages

- Profound knowledge of C (>8 yrs. of commercial experience)
- Considerable C++ experience
- Python scripting
- PHP scripting
- many others

Computer vision and pattern recognition

- Machine learning algorithms
- Affine transformations
- OpenCV
- OpenCL
- CUDA
- Intel Performance Primitives
- NVIDIA Performance Primitives
- Matlab/Octave

Embedded

- Embedded linux
- FreeRTOS
- ThreadX
- Understanding of Linux Kernel
- Linux API
- Linux networking
- Debugging in GDB
- Buildroot
- YOCTO project

- U-boot bootloader
- POSIX sockets
- POSIX threads
- Make, CMake
- Experience with Raspberry PI, NVIDIA Jetson etc.
- JTAG debugging
- STM32

Other

- GIT
- QT (small projects)
- FPGA design
- Verilog HDL
- Chisel
- Altera Quartus
- Digital Signal Processors
- PCB design

Benchmarking

Upwork C programming test 4.00 out of 5 (top 20%)
Brainbench C 3.95
Brainbench Linux Administration (General) 3.17

Languages

English Upper intermediate (TOEFL score = 92)
Japanese Basic (JLPT level N5)
German Very basic, no certification