Miroslav Vitkov

Curriculum Vitae

TECHNICAL SKILLS

GOOD LEVEL * C++11, STL, OprnCV,

* C11, UNIX,

* git, GNU make, CMake

INTERMEDIATE * python2, matplotlib,

numpy, pyQt

* USb bus, OpenOCD,

* avr-asm, digital hardware design,

* LaTeX, Doxygen, UMLet

* Inventor, SolidWorks

BASIC LEVEL * FANUC G-Code,

* MySQL

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 sir.vorac@gmail.com

EDUCATION

2007 - 2011 Industrial Engineering (in

English)

BACHELOR DEGREE

MULTITASKING AUTOTUNING PID CONTROLLER IN HEAT TRANSFER

APPLICATION

Technical University of Sofia

2003 - 2007 Communications techni-

cian

HIGH SCHOOL DIPLOMA

Technical School of Commu-

nications, Sofia

COMMUNICATION SKILLS

Bulgarian Native speaker

ENGLISH Fluent (CPE Cambridge)

GERMAN Basic

PUBLIC PROJECTS

C++ identity

Identify persons. Uses OpenCV.

C megaboot

Simple atmega 168 bootloader.

C cgetset

 $Generate\ getter/setter\ methods.$

Self-contained.

PYTHON rtplot

Realtime temperature plotting

utility.

LATEX rpg

Role-playing game.

INVENTOR gearbox

Gearbox design and technical

drawings.

WORK EXPERIENCE

20 May 2013 - 21 Mar 2015

Antelope Audio

C++ embedded developer

Implementation of a complex audio processing algorithm in C++ for ARM. Audio signal processing design (z-transform, filters, impulse response, amplitude and phase diagrams). GUI design with Python and Qt. OpenOCD and hardware considerations.

12 FEB 2013 - 13 MAY 2013

Johnson Controls

C embedded developer

Embedded C, concurrency, unit tests and documentation.

22 Aug 2011 - 15 Jan 2013

MM Solutions Ltd

C++ embedded developer

C++ with Boost, OpenCV etc. libraries for ARM. GNU/Linux and git. Digital video processing in 3D environment (quaternions, field of view, image recognition, gyroscopes).