

# Miroslav Vitkov




## Curriculum Vitae

### TECHNICAL SKILLS

GOOD LEVEL	<ul style="list-style-type: none"><li>* C++11, stl, OpenCV</li><li>* C11, GNU, Linux, Bash</li><li>* git, makefiles, CMake</li></ul>
INTERMEDIATE	<ul style="list-style-type: none"><li>* python2, matplotlib, numpy, PyQt</li><li>* MatLab, SimuLink</li><li>* USB bus, OpenOCD</li><li>* avr-asm, digital hardware design</li><li>* LaTeX, Doxygen, UMLet</li><li>* Inventor, SolidWorks</li><li>* SDL2, OpenGL</li></ul>
BASIC LEVEL	<ul style="list-style-type: none"><li>* FANUC G-Code</li><li>* MySQL</li><li>* Pearl, C#, Javascript</li></ul>

### COMMUNICATION SKILLS

BULGARIAN	Native speaker
ENGLISH	Fluent (CPE Cambridge)
GERMAN	Basic

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### EDUCATION

2007 – 2011	<b>Industrial Engineering (in English)</b> BACHELOR THESIS: MULTITASKING AUTOTUNING PID CONTROLLER IN HEAT TRANSFER APPLICATION <i>Technical University of Sofia</i>
2003 – 2007	<b>Communications technician</b> HIGH SCHOOL DIPLOMA <i>Technical School of Communications, Sofia</i>

### PUBLIC PROJECTS

C++	<b>identity</b> <i>Identify persons. Uses OpenCV.</i>
C	<b>megaboot</b> <i>Simple atmega168 bootloader.</i>
C	<b>cgetset</b> <i>Generate getter/setter methods. Self-contained.</i>
PYTHON	<b>rtplot</b> <i>Realtime temperature plotting utility.</i>
LATEX	<b>rpg</b> <i>Role-playing game.</i>
INVENTOR	<b>gearbox</b> <i>Gearbox design and technical drawings.</i>

## WORK EXPERIENCE

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04 JAN 2016 - PRESENT

Euro Games Technology

*C++ Linux developer*

POSIX - sockets, inter process communication, threads.

C++11, Bash, g++, clang.

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).