## 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

**∠**<sub>0</sub> | Sofia, Druzhba-2, bl. 202, app. 40

**a** 0895 735 164

sir.vorac@gmail.com
 sir.vorac@gmail.com

#### **EDUCATION**

2007 – 2011 Industrial Engineering (in

English)

BACHELOR DEGREE

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 graph\_temperature

GUI to track temperature

changes.

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).