

# Miroslav Vitkov

## Curriculum Vitae

### 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).

### TECHNICAL SKILLS

GOOD LEVEL	C++, stl, C, git, GNU make
INTERMEDIATE	Bash, Analog and digital hardware design, GNU/Linux, LaTeX, OpenOCD, Matlab, Digital signal processing, Python, Inventor, Eclipse, CMake, USB firmware
BASIC LEVEL	Windows, G-Code, MySQL, subversion, MySQL, sed, Search algorithms, Data structures, Prometheus, OrCAD, AutoCAD, PSpice



Sofia, Druzhba-2, bl. 202, app. 40



0895 735 164



sir.vorac@gmail.com

### EDUCATION

2007 – 2011

**Industrial Engineering (in English)**

BACHELOR DEGREE, CLASS ACTIVITIES FINISHED, BUT DIPLOMA PENDING AROUND FEB 2016!

*Technical University of Sofia*

2003 – 2007

**Communications technician**

HIGH SCHOOL DIPLOMA

*Technical school of communications, Sofia*

### PUBLIC PROJECTS

C++ **identity**

*Identify persons. Uses OpenCV.*

C **megaboot**

*Simple atmega168 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.*

### COMMUNICATION SKILLS

BULGARIAN Native speaker

ENGLISH Fluent (CPE Cambridge)

GERMAN Basic