

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



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EDUCATION

2007 – 2011 **Industrial Engineering (in English)**

BACHELOR DEGREE

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