




Miroslav Vitkov

Curriculum Vitae

TECHNICAL SKILLS

GOOD LEVEL	* C++11, STL, OpenCV, * 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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EDUCATION

2007 – 2011	Industrial Engineering (in English) BACHELOR DEGREE <i>Technical University of Sofia</i>
2003 – 2007	Communications technician HIGH SCHOOL DIPLOMA <i>Technical School of Communications, Sofia</i>

COMMUNICATION SKILLS

BULGARIAN	Native speaker
ENGLISH	Fluent (CPE Cambridge)
GERMAN	Basic

PUBLIC PROJECTS

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

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, concurency, 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).