Edyta Zugaj

ul. Hiszpańska 15/1b
Wrocław
+48789357799
edith.zugaj@gmail.com

OBJECTIVE

Seeking a position to enhance my skills and abilities in the IT, the most desired technologies are C, C++, embedded applications, DSP, telecom. I have positive attitude to work in international environment.

EDUCATION

Wroclaw University of Technology, Faculty of Electronics, **Control Engineering and Robotics**, specialization: robotics *M.Sc.*	2005 - 2010
Wroclaw University, Mathematics and Computer Science Department, **Mathematics**, specialization: theoretical mathematics *B.Sc.*	2008 - 2010
University of Computer Science and Economics in Olsztyn **Computer Science and Econometrics** *B.Sc.*	2002 - 2005

EXPERIENCE

Senior Software Design Engineer   01.2017 - now
Software Design Engineer   03.2016 - 12.2016
Dolby Poland Sp. z o.o.,

- porting existing audio projects in C/Python for DSP, ARM, PCs and other platforms, all popular operating systems,
- program complexity analysis,
- projects' optimization,
- preparing VoIP clients on all popular systems and browsers,
- working with new as well as with existing projects.

Software Design Engineer   05.2014 - 04.2016
Nokia Sp. z o.o.,

- programming in C++/Matlab/Python for DSP,
- preparing technical specification for incoming features (hardware requirements),
- technical leadership in new revision of eNB prototyping (PHY layer),
- representing team on architectural and features meetings,
- implementing and optimizing LTE PHY algorithms basing on Matlab model,
- implementing tests UT/SCT,
- project's maintenance (problem analysis and solving inc. customer support).

Software Engineer   04.2011 - 05.2014
Espotel Poland Sp. z o.o.,

- programming in C for DSP,
- implementing and optimizing drivers for peripherals of DSP,
- providing technical expertise for upper layer teams,
- implementing tests UT/SCT,
- maintenance (including reporting and investigating problems with DSP provider TI).

Software Engineer   08.2010 - 03.2011
Red Sky Sp. z o.o.,
- programming in C for Linux, back-end applications in web services.

TECHNOLOGY   *Programming Languages:* currently working with: WebAssembly, JavaScript, C++,
SKILLS   C, Python; hands on experience with: Bash, ASM for QDSP, ASM for ARMv7/8,
                 ASM for Tensilica Lx, Matlab, ASM for TI C6000, Python, Bash, Java

                 Operations Technologies: currently working with: Eclipse, CI, cmake, MSVS, XCode,
                 Perforce, simulators, profilers, tracers, hands on experience with: Code Composer
                 Studio, git, SVN, Qt SDK, qmake, make, gdb, Valgrind, Wireshark

                 Operating Systems: Linux, Windows, OSX, Android, iOS, and several RT OSes

                 Others: good: LaTeX, DSP programming, Berkeley Oracle Data Base, academic ex-
                 perience in PLC programming, hands on experience with boost and STL, academic
                 experience with MPI (Message Passing Interface), practical experience in implement-
                 ing FUSE and HTTP client and server in C++ and under Linux

TRAININGS   C++ Advanced   2020
                 Lx4 Tensilica Introduction   2016
                 ARM Cortex-A15 Introduction and Optimization   2015
                 ARM Cortex-A15 NEON Programming   2015
                 SEP   2015
                 LTE/E-UTRAN Signalling   2014
                 TI C6000 Embedded Design Workshop   2012
                 Open Base Station Architecture Workshop   2014

MAJOR   Wave Simulator a program visualising ultrasonic waves propagation in an iso tropic
ACADEMIC   medium. The project was made with Qt library usage, the documentation was pre-
PROJECTS   pared in UML., *Data visualisation, QT*
                 Unicycle cart simulator a project written in Qt. *Data visualisation, QT*
                 Robot swarms event controller a superior controller with bankers algorithm imple-
                 mented. The program permits a user to plan robot swarms work with deadlock
                 avoidance. Similar solution is used by KIVA Systems., *Event systems, QT*
                 Polish phonemes recognition with SNN and The Matlab Neural Network Toolbox.
                 SNN, Matlab
                 Palm tactile reconstruction with TENS currents. The project was made in group of
                 two., *electronics*