

Tomasz Mazur

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Summary

Software developer with over six years professional experience, putting a high emphasis on writing clean and efficient code. Excellent problem solver, constantly finding room for improvement. Always gets the job done on time, likes to take initiative.

Work Experience and Course Related Work

07.2014 – present **Software Engineer at Tronel Sp. z o.o.**

Developing software for wireless testing equipment using embedded solutions (RTOS with concurrent programming in C/C++). Implementing requirements based on specification, fixing protocol and system bugs, performance improvements and troubleshooting UMTS network issues. Daily collaboration with international teams based in UK.

04.2013 – 07.2014 **Software Development Engineer at Mitsubishi Electric**

Development of inverter products for European markets in cooperation with German HQ. Overseeing launch of new products, fixing bugs and usability issues, preparing troubleshooting scenarios. Training technical support staff on use of new products.

10.2012 – 07.2013 **Master Diploma Thesis**

Creation of a navigation system for a wind powered mobile robot, using a modified A* algorithm on a Raspberry PI platform. Path generation in a mapped environment.

05.07 – 05.10.2012 **Research engineer at National University of Singapore.**

Development of a real-time indoor navigation application, based on dead reckoning. Sensor data from an accelerometer, gyroscope, magnetometer, and Wi-Fi access points was fused together to provide an accurate positioning system, able to function in offices, malls, etc.

03.2011 – 01.2012 **Engineer Diploma Thesis.**

Construction of an inverted pendulum thrust stand, and development of a control algorithm aimed at stabilizing it's position using a drive with adjustable thrust and angle. Using a Field Programmable Gate Array to control an object in real time.

05.2009 – 06.2012 - **Web developer** (PHP, SQL, JavaScript, HTML)

Various jobs as a web application developer- media agencies and freelance. Gained valuable software development and time management experience.

Education

2008 – 2013 **Master of Science:** AGH University of Science and Technology, Faculty of Mechanical Engineering and Robotics, Field of study: Automation and Robotics, Specialization: Robotics.

Courses, certificates

02.2013 Udacity: Differential Equations in Action.
29.03.2012 Motorola Solutions: Scrum in a Nutshell.
02.06.2011 „NI LabVIEW in building control algorithms”.

Language Skills

- English, Polish – native, fluent in reading and writing
- German, Russian, Spanish – elementary

Skills

- Programming languages:
 - Proficient: C, C++ (STL);
 - Good: Java(Android SDK), PHP, SQL, JavaScript;
 - Familiar: C#, Python.
- Using Object-Oriented Programming to create applications.
- Working on large scale systems and implementing design requirements.
- Version control software: **Git**, SVN, PTC Integrity.
- Unit testing (Google Test).
- **Real-time operating systems** (OnTime, QNX, NI). Concurrent programming, low-latency systems.
- Good regular expression knowledge.
- Visual Studio, MatLAB, LabView, FEM software.
- Know-how: telecommunications (3G/UMTS), algorithms, control theory, machine learning, neuron networks, PID controllers.
- Programming PLCs, robots, VFDs, FPGAs, microcontrollers (AVR, 8051).
- Result-driven problem solver. Excellent analytic and abstract thinking.
- Successfully lead group to complete a given task.
- Ease and joy of learning new skills and experience (self-starter).