PIOTR P. POLIT

## 109 Honiton Road, Coventry, CV2 3EG, UK

## Website: [**www.politproject.eu**](http://www.politproject.eu) Mobile: 0 7530 915191 E-mail: p.polit.86@gmail.com

|  |
| --- |
|  |

**CAREER OBJECTIVE**

A proactive, ambitious and vision-driven Electronics Engineer with global business predisposition and strong can-do attitude eager to bring valuable asset to help expand your operations. Consequently building up rich expertise, focused on one, clear direction for over 10 years, now ready to hit the ground running with excellent Embedded Electronics Design background.

|  |
| --- |
|  |

**CORE SKILLS**

* Microcontrollers and Microprocessor systems development: Intel 8048/8051, Motorola MC68HC12, Freescale MCF5282 ColdFire, AVR, ARM - also with use of UML
* Programming languages: Assembler, C/C++, Java, VBA
* Compilers, IDEs & tools: Visual Studio, Dev-C++, Kate, Turbo C++, Eclipse, Qt, ImageCraft ICC12, gcc, BDM, JTAG, ISP
* Digital and Analog EMC compliant electronics PCB design - schematic capture, Gerber - Altium Designer
* Reconfigurable Logic Devices (PLD, FPGA) & Hardware Description Languages (Abel, VHDL)
* PLC controllers (Siemens) at Logo!Soft Comfort and CoDeSys
* Computer Aided Design - AutoCAD

|  |
| --- |
|  |

**RELEVANT WORK EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| Mar 2014 – Present | **WAGO Innovative Connections Ltd,** UK | **Technical Design Engineer** |
| * Design and engineering of bespoke electronic/electrical assemblies and circuitry (IPCs, Programmable Fieldbus/Modbus/CAN Controllers, Digital and Analog Input and Output Modules, DALI Controls, RS-232 Interfaces, Rail-Mounted Terminal Block Systems, Distribution Boards, Modular Wiring Systems) * Participating in various projects – mainly for building automation, marine, oil and gas industries * Full cycle of product creation including schematics and models to customer specification, BOMs (Bills Of Materials), electronic take-offs, costing sheets and other project documents; distributing reports; * Creating documentation: templates, 2D and 3D models, and layouts of PCB modules, electrical/electronic components, harness and trunking systems using AutoCAD and ProServe software * Coordinating production personnel and resolving issues found once designs are put into production * Building test vectors, netlists and masks followed with performing automated testing programs of modular hardware and cable harness * Liaising with Customers / Projects Department over a clear specification of design requirements using MS Outlook, SAP CRM and Terminal Emulation in Citrix – effective communication on all levels incl. MD * Exposure to safety critical standards - SIRA Certification (IECEx, ATEX). | | |

|  |  |  |
| --- | --- | --- |
| Jun 2010 – Sep 2010 | **Danfoss Ltd**, Poland – **Industrial Automation** | **Automation Engineer** |
| * Technical support for accredited partners – critical interpersonal skills to build successful relationships * Diagnostics - identifying and localising faults in customers’ automated systems in order to repair them * Translating technical specifications using Adobe InDesign * Participating in marketing campaign for the CS pressure switch | | |

|  |  |  |
| --- | --- | --- |
| Jan 2010 – Jun 2010 | **CADExpert Ltd**, Poland | **CAD Operator** |
| * Building project framework and sketching at AutoCAD 2D environment at advanced level * Designing basic 3D objects at AutoCAD 3D to given requirements and constraints * Full verification of learning materials of the Autodesk Authorised Training and Certification Centre and adapting them to the new quality (creating professional technical documentation) | | |
| Oct 2004 – Jan 2005 | **McART Ltd**, Poland | **IT Technician** |
| * Responsible for servicing computer networks of hospitals, municipal office and retail * Troubleshooting network components and client devices * Working in several distributions of Linux including Mandrake, Knoppix and Debian | | |

|  |
| --- |
|  |

**EDUCATIONAL QUALIFICATIONS**

|  |  |  |
| --- | --- | --- |
| Sep 2011 – Jul 2013 | **Coventry University**, UK |  |
|  | Global Leaders Programme | |

|  |  |  |
| --- | --- | --- |
| Sep 2010 – Dec 2012 | **Coventry University**, UK |  |
|  | Faculty of Engineering and Computing  Field of study: MSc Embedded Microelectronics and Wireless Systems | |

|  |  |  |
| --- | --- | --- |
| Sep 2006 – Jun 2010 | **Technical University of Lodz,** Poland |  |
|  | Faculty of Electrical, Electronic, Computer and Control Engineering  Field of study: MSc Electronics and Telecommunication  Specialisation: Microprocessor Systems and Programmable Circuits | |

|  |  |
| --- | --- |
| Sep 2002 – Jun 2006 | **Electronic Technical High School in the 9th Complex of High Schools in Lodz**, Poland |
|  | Specialisation: Computer systems and networks |

|  |
| --- |
|  |

**PROFESSIONAL AFFILIATIONS**

* **IEEE - Member -** United Kingdom and Ireland section
* **IET Member**
* **National Electricians Association (SEP) Certificate** to utilise and service machines and electro-energetic nets (Category E - Group I - up to 1 kV), Poland
* **Amateur Radio Association** – SP7YBE, Poland

|  |
| --- |
|  |

**KEY PROJECTS AND ACHIEVEMENTS**

* **WAGO’s Harness Testing Software** – full software deployment (from concept to delivery) as a quick solution to increase testing efficiency by discharging operators’ workload in order to meet strict project deadline. Application is capable of computing optimum number of tests, reorganising circuit stacks, automatically filling in necessary data and generating two .rtf files containing pinout assignment (X-Ref’s) and wiring instructions (test vectors) ready to be imported into the test machine. Introduction of the programme resulted in reduction of the test cycle from 20-40 min. down to 5 min. Moreover it enhanced reliability and improved time predictability what proves it a successful product.
* **Vehicle remote control via GSM microcontroller system** – project of microprocessor system (based on microcontrollers from AVR and ARM families) used to remotely control output devices via GSM network using DTMF code. The system has been applied to an electrical land inspection vehicle.
* **Car Front Assist System** – implementation of a microcontroller system to prevent vehicles from the most common accidents consequent to inappropriate distance from the followed object; built prototype of the system starting with UML model, using console, context, use case, activity, object-interaction sequence diagrams and finished with class relationship diagram and program implementation in C code.
* **Tetris game on Linux systems** – I wrote the game as my fully individual project including creation of makefile, graphic design and implementation of the entire code in C++ compiled to executable file, and finally tested using Linux Valgrind memcheck Tool to detect and eliminate memory management bugs.

|  |
| --- |
|  |

**VOCATIONAL SKILLS**

* Soldering: both through-hole mounting technology (THD) and surface mounting technology (SMD)
* Operating Systems – Linux (Ubuntu, OpenSUSE, Knoppix), Windows (98, XP, 7, 10), DOS
* Good knowledge MS Office and OpenOffice – including Visual Basic for Applications (macros)
* Website design and knowledge of HTML and CSS technology - [www.politproject.eu](http://www.politproject.eu)

|  |
| --- |
|  |

**STRENGTHS, LANGUAGE SKILLS AND INTERESTS**

* Flying private aircraft towards Private Pilot’s Licence
* Full driving licence for cars, motorbikes and combine harvesters
* Good communication skills (written and verbal) in English and Polish
* Elementary proficiency in Russian and Mandarin Chinese