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Senior Software Engineer

PROFESSIONAL EXPERIENCE

2015–to date Senior Software Engineer @ Israel Aerospace Industries - Malat, Israel

Designing and developing software for UAV systems and autonomous vehicles.

Managing software engineering life-cycle throughout all development stages such as requirement gathering and analysis, software architectural design, algorithmic development, implementation, testing, integration and delivery.

Writing software related technical documentation.

High level of expertise in developing real-time systems.

Years of programming experience in real-time languages C, C++.

Operating systems: Windows, Linux, GHS Integrity RTOS.

IDEs: MS Visual Studio, Eclipse, GHS Multi, Qt Creator.

Good knowledge of UML, TCP/UDP protocols and GoF design patterns.

2011–2015 Software Engineer @ Israeli High-tech, Israel

Developed proprietary software applications in C, C++, C#, Java languages.

2007–2010 Computer Science Lecturer @ Trent University, Ontario, Canada

Developed and taught courses on information systems, procedural and object-oriented programming languages, design patterns, digital logic and fundamentals of computer organization and design.

2002–2006 Research and Teaching Assistant @ Trent University, Ontario, Canada

Developed and implemented computer-based simulation models to investigate performance of parallel job scheduling strategies. Co-authored scientific publications.

1997–2000 Project Coordinator @ Intel, Kiryat Gat, Israel, New-Mexico, Oregon, USA

Coordinated and oversaw proper design, installation and qualification of high-tech electronic silicon chips manufacturing equipment.

FORMAL EDUCATION

2004–2006 Master of Science in Computer Science @ Trent University, Ontario, Canada

Thesis: 'Workload Modelling and Internal Backfilling for Parallel Job Scheduling'

2001–2004 Bachelor of Science in Computer Science @ Trent University, Ontario, Canada

1992–1993 Diploma of Technician, Marine Electricity and Control @ Mevot Yam Marine Technological College, Mikhmoret, Israel

1990–1992 Matriculation Certificate, Marine Electricity and Control @ ORT Yami, Ashdod, Israel

TECHNICAL SKILLS

- OS: Windows 7/8/10, Ubuntu 18.04, GHS Integrity RTOS
- IDEs: MS Visual Studio, Eclipse, GHS Multi, Qt Creator, IAR Embedded Workbench.
- Programming languages: C, C++, C#, Java, Python, PHP, MIPS.
- Design patterns: GoF design patterns in C++, C#.
- Web development: PHP, phpBB, .NET, JavaScript, JQuery, HTML, CSS, XML, JSON.
- Databases: SQL, MySQL, MS SQL Server, Niche RMS, CPIC.
- Networking: RTI DDS, SOCKS, Winsock, Telnet, SSH.
- Communication protocols: TCP/UDP, HTTP/HTTPS, SSL, RS, Ethernet.
- Multithreading: Synchronous and asynchronous non-blocking multi-threaded programming.
- Security: Symmetric and asymmetric encryption, digital signatures.
- Version control systems: Git SCM, MS TFS, SVN, IBM Rational ClearCase.
- Installers: Wix Toolset, InstallShield, Advanced Installer, Visual Studio Installer.
- Microprocessors: PowerPC, ARM 7 micro-controller, phyFLEX-i.MX6 system on module.
- Tools: MS Office, Beyond Compare, Wireshark, Packet Sender, Google Analytics, Adobe Dreamweaver, phpMyAdmin, Oracle VM VirtualBox, Understand Source Code Analysis & Metrics SciTool.

MILITARY SERVICE

1993–1996 Marine Electrician @ Israeli Navy (Shayetet 13)

Maintained secure operational condition of naval electrical systems.

SPECIALTIES

Research, analysis, computer programming, instruction and coordination.

LANGUAGES

English, Hebrew, Russian.

REFERENCES

Degrees, transcripts, scientific publications, letters of reference and commendation as well as award certificates will be furnished upon request.