LinkedIn: **Mikhail Jacques**   E-mail: jacques.mikhail@gmail.com
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HIGHLIGHTS

- Master of Science in Computer Science
- Top secret (Level 3) security clearance
- Fluent in English, Hebrew, Russian

PROFESSIONAL SUMMARY

- Specialist in developing real-time, embedded and desktop applications, with deep expertise in C and C++ programming languages, complemented by proficiency in C# and Python.
- Demonstrated ability to lead complete software engineering life cycles, including requirements gathering and analysis, architectural design, implementation, testing, delivery, integration and documentation.
- Highly skilled in leveraging advanced AI tools, conducting in-depth research, writing efficient and high-quality code, and producing detailed, comprehensive technical documentation.

PROFESSIONAL EXPERIENCE

2015 - Present Software Engineer @ Israel Aerospace Industries - Malat, Israel
Designed and developed real-time, desktop and embedded software applications for UAVs, robotics and laboratory systems using C, C++, C#, and Python.

2015 - 2015   Software Engineer @ Hewlett-Packard, Yehud, Israel
Developed LeanFT, a proprietary automated software tool, using C# and Java.

2014 - 2014   Software Engineer @ Galil Soft, Bnei Brak, Israel
Provided software development solutions to clients using C++.

2012 - 2013   Software Engineer @ TrioSoft, Ashdod, Israel
Developed a multi-mainline irrigation controller for Netafim using C++.

2007 - 2010   Computer Science Lecturer @ Trent University, Ontario, Canada
Developed and taught courses on information systems, programming languages, and computer organization.

2002 - 2006   Research and Teaching Assistant @ Trent University, Ontario, Canada
Developed computer-based simulation models for parallel job scheduling strategies. Co-authored scientific publications.

1997 - 2000   Project Coordinator @ Intel, Kiryat Gat, Israel, New Mexico, Oregon, USA
Coordinated design, installation, and qualification of electronic silicon chip 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 @ Mevoot Yam Marine
Technological College, Mikhmoret, Israel

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

TECHNICAL SKILLS

- AI tools: OpenAI ChatGPT Plus, OpenAI Codex Programming AI, GitHub Copilot, Grammarly
- Programming Languages: C, C++, C#, Python
- OS: Windows, Ubuntu, Linux Embedded, GHS Integrity RTOS
- Design Patterns: GoF design patterns in C++, C#
- Networking: Boost ASIO, TCP/UDP, RS232, RTI DDS, SOCKS, CAN bus
- Version Control: Git, MS TFS, SVN
- IDEs: Visual Studio, Eclipse, PyCharm, GHS Multi
- Source Code Editors: Visual Studio Code, Qt Creator
- Static Code Analysis Tools: KLOCWORK, PVS-Studio
- Management tools: Microsoft Azure DevOps, Jira
- Auxiliary tools: CMake, MS Office, Beyond Compare, Wireshark, Packet Sender, etc.

MILITARY SERVICE

1993 - 1996 Marine Electrician @ Israeli Navy (Shayetet 13)
Maintained secure operational condition of naval electrical systems.