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| LinkedIn:[**Mikhail Jacques**](https://il.linkedin.com/MikhailJacques) | E-mail:mjack@iai.co.il |
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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**](https://www.iai.co.il/) **- Malat, Israel**

Designed and developed real-time, desktop and embedded software applications for UAVs, robotics and laboratory systems.

**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 Embedded Software Engineer @ TrioSoft, Ashdod, Israel**

Developed a multi-mainline irrigation controller for Netafim using C++.

**2007 - 2010 Computer Science Lecturer @** [**Trent University**](https://www.trentu.ca/)**, Ontario, Canada**

Developed and taught courses on information systems, programming languages, and computer organization.

**2002 - 2006 Research and Teaching Assistant @** [**Trent University**](https://www.trentu.ca/)**, 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, Grammarly, Google Gemini, Anthropic Claude 3.7 Sonnet
* Programming Languages: C, C++, C#, Python
* OS: Windows, Ubuntu, Linux Embedded, GHS Integrity RTOS
* Design Patterns: GoF design patterns in C++, C#
* Networking: RTI DDS, SOCKS, TCP/UDP, RS232, Boost ASIO
* Version Control: Git, MS TFS, SVN
* IDEs: MS Visual Studio, Visual Studio Code, Cursor, PyCharm, Eclipse, Qt Creator, GHS Multi
* Static Code Analysis Tools: KLOCWORK, PVS-Studio
* Management tools: Microsoft Azure DevOps, Jira
* Auxiliary tools: 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.