

LinkedIn: [Mikhail Jacques](#)

GitHub: [Mikhail Jacques](#)

E-mail: [mjack@iai.co.il](mailto:mjack@iai.co.il)

Cell: +972-(0)52-507-7979

## Software Engineer

### PROFESSIONAL EXPERIENCE

---

- 2015–to date**   **Software Engineer @ [Israel Aerospace Industries](#), Lod, Israel**  
Developing software for Unmanned Aerial Vehicles.  
Technologies: GHS Integrity RTOS, C/C++ programming languages.
- 2015–2015**   **Software Engineer @ [Hewlett-Packard](#), Yehud, Israel**  
Developed proprietary automated software QA tool LeanFT.  
Technologies: MS VS 2013, HP Unified Functional Testing (UFT), LeanFT, C#, Java.
- 2014–2014**   **Software Engineer @ [Galil Soft](#), Bnei Brak, Israel**  
Provided software development solutions in Linux OS environment to a variety of customers, including Intel, Verint, Giraffic.  
Technologies: Oracle VM Virtual Box, Linux OS, Vim & vi, Git & GitHub, Wireshark, Eclipse CDT, Understand SciTools, C/C++ programming languages.
- 2012–2013**   **Embedded Software Engineer @ [TrioSoft](#), Ashdod, Israel**  
Developed multi-mainline irrigation controller for Netafim.  
Technologies: MS VS 2012, IAR Embedded Workbench, CMX RTOS, C/C++ programming languages, multithreaded environment.
- 2011–2011**   **Web Developer @ [Gimmonix](#), Tel-Aviv, Israel**  
Analyzed requirements, developed content, built, tested and hosted websites.  
Technologies: PHP, phpBB, .NET, C#, JavaScript, HTML, CSS, MySQL, Google Analytics.
- 2008–2010**   **Police Officer @ [Ontario Provincial Police](#), Ontario, Canada**  
Investigated public complains and charged people with federal and provincial offences. Patrolled roads and issues provincial offence notices to members of the motoring public.
- 2007–2008**   **Computer Science Lecturer @ [Trent University](#), Ontario, Canada**  
Developed and taught courses on information systems, procedural and object-oriented programming languages (C, C++, C#), 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 (C++, C#) 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.
- 1996–1997**   **Marine Electrician @ [Israeli Merchant Fleet](#), Open Ocean, Far East, Europe**  
Maintained secure operational condition of marine electrical systems.

## TECHNICAL SKILLS

---

- OS: GHS Integrity RTOS, Windows 7/8/10, Linux (Ubuntu 12.04, 14.04, Fedora 20).
- IDEs: Eclipse, MS Visual Studio, GHS Multi, Qt framework, IAR Embedded Workbench.
- Programming languages: C, C++, C#, Java, Python, PHP, MIPS.
- Design patters: All 23 GoF design patterns in C++ and C#.
- Web development: PHP, phpBB, .NET, JavaScript, JQuery, HTML, CSS, XML, JSON.
- Databases: SQL, MySQL, MS SQL Server, Niche RMS, CPIC.
- Networking: SOCKS, Winsock, Telnet, SSH.
- Communication protocols: HTTP/HTTPS, TCP/IP, SSL, RS, Ethernet.
- Multithreading: Synchronous and asynchronous non-blocking multi-threaded programming.
- Security: Symmetric and asymmetric encryption, digital signatures.
- Version control systems: MS TFS, Git SCM, 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: Beyond Compare, Understand Source Code Analysis & Metrics SciTool, Google Analytics.
- Miscellaneous: POSIX, Cmake, UML, MS Office, Adobe Dreamweaver, phpMyAdmin, Oracle VM VirtualBox, GDB debugger, Fiddler, Wireshark, Boost, GPSd, GStreamer, mitmproxy, Verilog HDL, HP UFT, LeanFT.

## FORMAL EDUCATION AND TRAINING

---

- 2011–2012** Microsoft Certified Professional Developer @ Management College of Technology, Ashdod, Israel
- 2008–2009** Diploma of Provincial Constable @ [Ontario Police College](#), Ontario, Canada
- 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

## 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.

## TRAVEL

---

Israeli and Canadian passports as well as readiness to travel/relocate anywhere anytime.