

# Harel Levin

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## Work experience

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**NRCN** Nov 2016 — Present

Software Engineer

System engineering of Super Computers and High-Performance Computers.  
Development of efficient distributed and parallel algorithms.

**IAF** Oct 2015 — Oct 2016

Software Team Leader

Serving in the Israeli military as a software team leader.  
Leading a team of three software developers.  
Programming software products for avionic simulations.

**IAF** Oct 2014 — Oct 2015

Software Engineer

Serving in the Israeli military as a software engineer.  
Engineering and Development of software solution for flight simulators and avionic simulations.

**IAF** Oct 2012 — Oct 2014

Programmer

Serving in the Israeli military as a programmer.  
Developing flight simulators.  
Programming Real-Time systems in C++ and C# languages.

## Education

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**M.Sc. in Computer Science** Sep 2012 — Present

Open University of Israel

Currently working on my thesis.  
The thesis subject is "Privacy-Preserving Distributed Algorithms for Sparse Graphs".

My Researches are funded by the following:

- The Open University in Israel.
- Ben Gurion University.
- Lynn and William Frankel Center for Computer Science.
- Israel Science Foundation grant 724/15.

**B.Sc. in computer Science** Sep 2006 — Aug 2010

Jerusalem College of Technology

# Academic Publications

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- Harel Levin, Gal Oren, Eyal Shalev, Vladimir Lyakhovsky, Acceleration of Hydro Poro-elastic Damage Simulation in a Shared-Memory Environment, The international Parallel Computing conference (ParCo'19)
- Re'em Harel, Idan Mosseri, Harel Levin, Lee-or Alon, Matan Rusanovsky, Gal Oren, Source-to-Source Parallelization Compilers for Scientific Shared-Memory Multi-core and Accelerated Multiprocessing: Analysis, Pitfalls, Enhancement and Potential, The International Journal of Parallel Programming (IJPP'19)
- Eyal Shalev, Vladimir Lyakhovsky, Gal Oren, Harel Levin, Stephen J. Bauer, Damage Accumulation and Wellbore Stability, The American Geophysical Union Conference (AGU'18)
- Gal Oren, Leonid Barenboim, Harel Levin, Distributed Fault-Tolerant Backup-Placement in Overloaded Wireless Sensor Networks (Full Paper), The 9th International Conference on Broadband Communications, Networks, and Systems (BROADNETS'18)
- Gal Oren, Leonid Barenboim, Harel Levin, Distributed Fault-Tolerant Backup-Placement in Overloaded Wireless Sensor Networks (Short Abstract) & Poster, The 11th ACM International on Systems and Storage Conference (SYSTOR'18)
- Gal Oren, Leonid Barenboim, Harel Levin, Distributed Fault-Tolerant Backup-Placement in Overloaded Wireless Sensor Networks (Poster), The 32nd IEEE International Parallel & Distributed Processing Symposium (IPDPS'18)
- Gal Oren, Leonid Barenboim, Harel Levin, Adaptive Distributed Hierarchical Sensing Algorithm for Reduction of Wireless Sensor Network Cluster-Heads Energy Consumption, The 13th International Wireless Communications and Mobile Computing Conference (IWCMC'17)
- Gal Oren, Leonid Barenboim, Harel Levin, Load-Balancing Adaptive Clustering Refinement Algorithm for Maximization of Wireless Sensor Network Clusters Lifetime, The 15th International Conference on Wired/Wireless Internet Communications (WWIC'17)

# Qualifications

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## Languages

Hebrew - Mother language.

English - Excellent.

## Computer Science Training

Took several military computing courses for the following topics:

- WPF
- WCF
- HTML5

Attendance in RHEL7 System Engineering course at John Bryce College.

Attendance in Data Center Manager course at John Bryce College.

## Military

Certified as an officer in the IDF.

Military jobs are mentioned above.

# References

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References available upon request.