

Jonathan Devor

Algorithm Engineer | Data Scientist

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Algorithm engineer and data scientist with over a decade of experience delivering innovative solutions to complex real-world problems. Proven track record of leading projects from initial concept through prototype development and integration, while aligning closely with business objectives. My work spans a wide range of domains, including computer vision, fraud detection, and quantitative finance, where creative problem-solving has led to multiple publications and patents.

TECHNICAL SKILLS: Algorithms development and optimization, numerical methods, big data, image analysis, signal processing, AI / machine learning, modeling, simulations, and visualizations. Programming: Python, C/C++, Matlab, Derive, IDL.

Native speaker of both English and Hebrew.

- 2026 – current* **CTO, TrustedNewsScore**, Jerusalem, Israel
Identifying fake news using an AI-based app that evaluates the quality and bias of news articles, and validates sources.
- 2022 – 2026* **Researcher, NextSilicon**, Givataim, Israel
Computational mathematics team. Developing a customized math library, optimized for next-generation supercomputer processors.
- 2021 – 2022* **Senior Algorithm Developer, Mobileye**, Jerusalem, Israel
Road Experience Management (REM) team, implementing large-scale cloud-based mapping, which is key for the reliable operation of automated vehicles.
- 2016 - 2021* **Director of Research, RoadMetric**, Jerusalem, Israel
Managed a team of researchers with a focus on AI, data science, and advanced image processing. Initiated new products, patents, and standards. In 2021 RoadMetric was acquired by Australia-based Redflex Traffic Systems.
- 2016* **Data Scientist, Forter**, Tel-Aviv, Israel
Built an interactive tool for visualizing and evaluating Forter’s fraud-detecting model.
- 2014 - 2015* **Senior Quantitative Researcher, WorldQuant**, Ramat Gan, Israel
Constructed novel investment strategies for the U.S. and international markets.
- 2012 - 2013* **Postdoc in Astronomy**, Tel-Aviv University, Israel
Developed pipelines for the automated analysis of stellar variability time series.
- 2008 – 2011* **Software Engineer, Cisco Systems**, San Jose, CA
Created methods that enhance the quality and reliability of internet multicast video. Member of the IPTV Visual Quality Experience (VQE) development team.

- EDUCATION:** **Ph.D. in Astronomy**, Harvard University, Center for Astrophysics (2008)
B.S. in Computer Science and Physics, The Hebrew University of Jerusalem
(graduated Magna Cum Lauda 2002 ; average grade: 94)
- PATENTS:** Aviv I., Friedmann, E., **Devor J.**, *Increasing microchip production yield by optimizing testing with artificial intelligence* , 63318423 (provisional USA 2022)
Devor J., Frolov M., Muchnik I., Zlotogorski H., *Measuring vehicle speeds with an uncalibrated camera*, GB2015434.0, US-20240062393 (UK, USA 2020)
Devor J., Frolov M., Muchnik I., Zlotogorski H., *Training a machine to recognize a motor vehicle driver using a mobile device*, GB1908986.1, US-20230206064 (UK, USA 2019)
Devor J., Bensimhoun M., Muchnik I., Silvera E., *Detection and documentation of speeding violations*, PCT/IL2019/050937, 1813709.1, 16/546329 (PCT, UK, USA 2018)
Devor J. and Kirkpatrick S., *Method and device for measuring an electrical current flowing in a wire and/or the wire's location*, Hebrew University, 60/434,636 (USA 2003)
Zhang X., Linares G., **Devor J.**, Unni M., Berquist K., *Method for embedding non-intrusive encoded data in printed matter*, Inspectron Corp., 6,354,630 (USA 2002)
- EXPERT ADVISORY PANEL:** **Standards Institution of Israel:** Minimum requirements for traffic violation detection and recording measures: Manned enforcement apparatus – Doppler radar speed measuring instrument (SI 5140 part 2.3 ; approved 2020).
- SELECTED ACADEMIC PUBLICATIONS:** (peer reviewed)
Devor J., et al., *A Probabilistic Model for Rounding Errors: A New Look at the Table-Maker's Dilemma*, Proceedings of The 8th International Symposium for Cyber Security, Cryptology and Machine Learning (CSCML 2024)
Devor J., *On the development and applications of automated searches for eclipsing binary stars*, Ph.D. Thesis, Harvard University (2008)
Devor J., et al., *T-Lyr1-17236: A Long-Period Low-Mass Eclipsing Binary*, The Astrophysical Journal, 687, 1253 (2008)
Devor J., et al., *Identification, classifications, and absolute properties of 773 eclipsing binaries found in the TrES survey*, The Astronomical Journal, 135, 850 (2008)
Devor J. and Charbonneau D., *MECI: A Method for Eclipsing Component Identification*, The Astrophysical Journal, 653, 647 (2006)
Devor J. and Charbonneau D., *A method for eclipsing component identification in large photometric datasets*, Astrophysics and Space Science, 304, 351 (2006)
Devor J., Solutions for 10,000 eclipsing binaries in the bulge fields of OGLE II using DEBiL, The Astrophysical Journal, 628, 411 (2005)
- PRIZES & AWARDS:**
- **Quora Top Writer**, currently with over 21 million views
 - **Competent Communicator** at Toastmasters International (2010)
 - Team (VQE) won the **Pioneer Award** for core technology, the highest distinction given by Cisco Systems to a product development team, San Jose, CA (2009)
 - 2nd place at the **U.S. Open RoboCup**, Atlanta, GA. Built 5 autonomous robots that play soccer together, as part of the Harvard-MIT RFC-Cambridge team (2006)
 - Certificate of **Distinction in Teaching**, Harvard University (2003-2004)
 - 6th plc. at the 3rd Int'l Collegiate **Dragon Boat Championship**, Tianjin, China (2003)
 - Schulman Prize in **Physics**, Hebrew University High School, Jerusalem, Israel (1995)
 - 3rd plc. in the 15th "**Cities**" **Math Contest**, Technion- Israel Inst. of Tech. (1995)
 - Bronze medal at the 26th **Int'l Physics Olympiad**, Canberra, Australia (1995)