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EXPERIENCE

Academic & Policy Positions

Ministry of Innovation, Science, and Technology 1/25-Present
Jerusalem
National Advisor on Artificial Intelligence Policy and Regulation

Serve as a member of the Israeli government's expert forum on AI policy and regulation, providing consultation on emerging technologies and their implications through quarterly meetings. Contribute to the development of regulatory frameworks while offering strategic recommendations on implementation and oversight, with a focus on shaping national initiatives, with an emphasis on ethical considerations.

Ben Gurion University 3/22-Present
Negev
Lecturer

Developed from scratch a comprehensive course on ethics in artificial intelligence. The course introduces classical moral theories alongside key concepts in the philosophy of technology and then applies them to contemporary technological challenges – including autonomous systems, robots, chatbots, virtual reality, surveillance, algorithmic bias, and manipulation. It is taught as a required course for third-year Data Science and Information Science students, and as an elective open to all students in the School of Engineering.

Bar Ilan University 3/26-Present
Givat Shmuel
Lecturer

Teach my popular Ethics in AI course that introduces classical moral approaches as well as philosophy of technology; then analyzes major ethical issues in modern technology, e.g., autonomous systems, robotics, virtual reality, surveillance, bias, manipulation, and more. Currently being taught under the auspices of the Jewish Philosophy department as an elective course as part of the university's international program.

Yeshiva University Fall 2022
New York
Visiting Professor

Teach a comprehensive course on the ethics of data science and artificial intelligence with an emphasis on Jewish ethical sources. Taught to honors undergraduate students as part of the Jewish Studies department.

Engineering Experience

Mobileye, LTD.
Jerusalem
ASIC Department Project Manager 3/01- 3/17

Founding Engineer – One of five design engineers that developed Mobileye's family of EyeQ Vision Processors from scratch.

Project Manager of group of designer engineers which implemented a state-of-the-art image processing System on a Chip based on an ARM multicore processor; and based on a MIPS multicore processor in its second, third and fourth versions. Responsible for implementing computation intensive image processing algorithms in ASIC logic as well as developing a full test environment (i.e., testbench and testcase suite). Design modeling done in SystemC, hardware design done in Verilog. Design simulated and synthesized using Cadence tools. Additional responsibilities included writing technical specifications and complete system documentation, as well as managing outside design contractors, and interviewing candidates for employment. Other projects included: design of video interface modules, I2C modules, implemented in Altera and simulated using Modelsim. Also designed and developed MPC5200 based Ethernet interface PCB. In addition, responsible for functional safety related activities as they relate to hardware development.

Chief Storyteller

4/17-Present

As one of the founding engineers, I tell Mobileye's story from the beginning to the present, through the IPO and Intel exit. The story is an inspiration for entrepreneurs, businesspeople, government officials, engineers and really all people who have to contend with the ups and downs of striving to build themselves and the world around them. It is the quintessential Start-Up Nation story that has inspired UN delegates, U.S. Congress persons, MBA students, Venture Capitalists, Birthright students and many more from around the world.

OnePath Networks, LTD.

4/00-2/01

Jerusalem

Hardware Design Group Manager

Developed a Fiber to the Home system.

In charge of small development group responsible for design and development of Ethernet Switching hardware. System included Layer-2 switches controlled by an MPC850 microcontroller. Electronic design included system integration as well as board level discrete logic design and Field Programmable Gate Array (FPGA) design (Altera, Lattice). FPGA design done in VHDL. PCB design done in OrCAD. Managerial responsibilities included schedule definition, task resource allocation, and annual performance review. Additionally responsible for interfacing with suppliers, interfacing software and hardware designers (analog and digital).

News Digital Systems, LTD.

11/95-3/00

Jerusalem

Senior Electronic Design Engineer

Designed encryption/decryption chips for television/video broadcast.

Project manager responsible for development of PCI based MPEG data satellite receiver PCB. System controlled by an MC68306 microcontroller. Electronic design included system integration as well as board level discrete logic design and Field Programmable Gate Array (FPGA) design (Xilinx, Altera). FPGA design done in VHDL. Also responsible for defining test vectors and coding chip simulation test cases all done in VHDL. Additional responsibilities included writing technical specification and complete system documentation. Other projects include: development of testbench and testcase suite provided to customer for integration of existing VHDL module into customer ASIC; design of TDES scrambler chip (VHDL); design of DVB scrambler chip (VHDL); development of PCI based PCB to prototype DVB scrambler chip in FPGA; define and supervise software development. PCB design done in OrCAD. Scripting of random test vector generation done in PERL.

Optibase, LTD.
Hertzelia Pituach
Senior Electronic Design Engineer

6/94-11/95

Made the first Video on Demand (VOD) system for commercial airlines.

Project manager in charge of team of engineers responsible for development of VME based MPEG digital video decoder system controlled by an MC68302 microcontroller. Electronic design included system integration as well as board level discrete logic design and Field Programmable Gate Array (FPGA) design. FPGA design done in Xilinx Abel HDL and Viewlogic schematic capture; board level design done using OrCAD schematic capture. Also designed an EISA interface to perform both IO and burst DMA transfers fully compliant to EISA specification. Design implemented in Altera HDL. Responsible for writing EISA device driver coded in Microsoft C. Additional responsibilities included writing technical specification and complete system documentation furnished to the customer.

IBM Science and Technology Center
Matam, Haifa
VLSI Design Engineer

9/92-6/94

Designed state-of-the-art chips for computer motherboards.

Design engineer responsible for design and development of VLSI circuit to provide bridge function between MicroChannel bus and PCI bus. Tasks included circuit design implemented in proprietary Hardware Description Language (DSL1-HDL); complete chip simulation involving test case definition, generation, and analysis; complete chip documentation.

Aura Systems, INC.
El Segundo, CA.
Senior Electronic Design Engineer

3/89-8/92

Developed "Star Wars" anti-missile system.

Primary electronic engineer responsible for design and development of several InfraRed Scene Projectors. Systems employed 386-based embedded controller to drive VME and VSB based custom electronics. Primary engineer responsible for design and development of electronics for HDTV projector. Electronic design included both board level discrete logic design and Field Programmable Gate Array (FPGA) design. Board level design was done using Tango schematic capture. FPGA design was accomplished using FutureNet schematic capture and XILINX LCA design editor (XACT). All designs were simulated extensively as well as tested to completion in-circuit with HP Logic Analysis System 16500A. Tasks also included design and programming of system control software in Microsoft C, as well as Printed Circuit Board design and layout. Additional responsibilities included writing technical proposals submitted to private corporations as well as to the government. Also responsible for complete system documentation furnished to the customer.

Blaser Industries
Los Angeles, CA.
Electronic Design Engineer

1/86-3/89

Developed one of the first Laser Printer controllers.

Member of hardware design team responsible for design and development of laser printer controllers based on the MC68000 microprocessor. Tasks included: electronic hardware

design; complete prototype debugging; production unit testing; programming of all necessary test software - all done in M68000 assembly language. Testing included use of HDS-300/68000 Emulator system and HP 1631D Logic Analyzer. All electronics were drawn and simulated using the OrCAD software package.

Jet Propulsion Laboratory
Pasadena, CA.

6/82-1/86

Hardware/Software Engineer

Assisted in the design of new computer hardware for biomedical image processing applications. Developed system software for both test and operation. Programming was done in M6809 assembly language. Responsible for all procurement of parts and supplies. Also built and tested prototype circuits. Responsible for complete testing of production units. Responsible for hardware and software documentation.

VLSI Design Engineer

Responsible for the design of a subsystem of a VLSI data compression circuit in NMOS. Responsible for defining subsystem from system functional requirements. Developed topological floor plan and designed circuit artwork using ART layout program. Circuitry simulated using SPICE simulator.

FELLOWSHIPS

Center for Jewish History (CJH)

2025-Present

Online

Non-resident Fellow

Selected for a competitive two-year fellowship in the Technology and Jewish History Working Group, contributing to research and public scholarship at the intersection of technology and Jewish history. The fellowship examines how Jewish communities have used, shaped, and been affected by technological change, in order to address contemporary controversies surrounding artificial intelligence, autonomous vehicles, drones, vaccines, and other powerful modern technologies.

Bar Ilan University

2024-2025

Ramat Gan

Postdoctoral Fellow

Conduct research on contemporary ethical dilemmas arising from artificial intelligence within the Maayan Center for Jewish Philosophy, Ethics and Sustainability. Published a treatise on the ethical deployment of autonomous weapons by civilian police forces, and a study on the ethical propriety of “lovebots,” which was presented at the World Congress of Jewish Studies at the Hebrew University of Jerusalem.

EDUCATION

BAR ILAN UNIVERSITY

Department of Jewish Philosophy

PhD in Jewish Philosophy, June 2024

BAR ILAN UNIVERSITY

Department of Jewish Philosophy

M.A. in Jewish Philosophy, June 2020

YESHIVAT MERCAZ HARAV

Rav Aharon Soloveitchik Rabbinic Program

Rabbinical Ordination, R. Z. N. Goldberg, September 2009

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Sciences
B.S. in Computer Engineering, June 1985

ADDITIONAL COURSES

Summer Institute of Technology Ethics, Santa Clara University

Philosophy of Technology, Tel Aviv University

Philosophy of Technology and Design, University of Twente via FutureLearn

Machine Learning, Stanford University via Coursera

Synapses, Neurons and Brains, Hebrew University of Jerusalem via Coursera

ISO 26262 Automotive Functional Safety Training, Yogitech

RESEARCH AWARDS

- **President's Prize for Publication**, "Finding Virtue in Maimonides' Laws of Slaves," Bar Ilan University, June 2025
- **President's Prize for Publication**, "Autonomous Weapons Systems for Policing – A Jewish Ethical Perspective," Bar Ilan University, June 2025
- **Dean's Prize for Publication**, "Eudemonia of a Machine," Bar Ilan University, June 2025
- **Dean's Prize for Publication**, "Let Us Make Man in Our Image' - A Jewish Ethical Perspective on Creating Conscious Robots," Bar Ilan University, June 2025
- **President's Prize for Publication**, "To Make a Mind - A Primer on Conscious Robots," Bar Ilan University, December 2023
- **President's Prize for Publication**, "Polemics on Perfection: Maimonides' Last Law on Slaves Resolves the Debate," Bar Ilan University, December 2023
- **Dean's Prize for Publication**, "The Trolley Problem Just Got Digital - Ethical Dilemmas in Programming Autonomous Vehicles," Bar Ilan University, November 2022
- **First Place, "Pop, Rock and Midrash – Jewish Themes in Foreign Music,"** "Stairway To Heaven – A Mystical Midrash," Bar Ilan University, May 2022
- **Breakthrough Research in Jewish Philosophy**, Bar Ilan University, December 2021
- **President's Prize for Publication**, "The Virtuous Servant Owner - A Paradigm whose time has Come (Again)," Bar Ilan University, November 2021

AFFILIATIONS

- **Aurora Interfaith Ethics in Technology (Vatican)**, 2025-Present

- **Faith, Family & Technology Network**, 2025–Present
- **The Israeli Association for Ethics in Artificial Intelligence**, 2023–Present
- **AI & Faith**, 2021–Present
- **Law, Halakhah, and Ethics in conjunction with the Challenges of AI**, Institute of Jewish Law, The Hebrew University of Jerusalem, 2020–2021

PATENTS

- **Cyclical Image Buffer**, United States 7995067, Issued August 9, 2011
- **Gated storage system and synchronization controller and method for multiple multi-threaded processors**, Europe 2187316, Issued January 2012
- **ELUT: Enhanced Look-Up Table Signal Processing**, United States 8300058, Issued October 30, 2012
- **Multi-Function Summing Machine**, United States 8538205, Issued September 17, 2013
- **System On Chip Breakpoint Methodology**, United States 8656221, Issued February 18, 2014
- **Hardware To Support Looping Code In An Image Processing System**, United States 8,892,853, Issued November 18, 2014

PUBLICATIONS

Peer-Reviewed Publications

1. “The Moral Response to Radical Evil.” *Journal of Military Ethics*, 1–20. (2025). <https://doi.org/10.1080/15027570.2025.2561444>
2. “It is Not Good for Man to Be Alone – I Will Make Him a Lovebot?” *AI & Society* (Aug. 26, 2025). <https://doi.org/10.1007/s00146-025-02574-6>.
3. “Autonomous Weapons Systems for Policing – A Jewish Ethical Perspective.” *Theology and Science* (Mar. 26, 2025), 1–11. <https://doi.org/10.1080/14746700.2025.2472120>.
4. “AI Personhood from the Perspective of Jewish Philosophy.” In *Oxford Intersections: AI in Society*, edited by Philipp Hacker. Oxford, England: Oxford University Press. (2025). <https://doi.org/10.1093/9780198945215.003.0014>.
5. “Finding Virtue in Maimonides’ Laws of Slaves,” *Tradition*, 56(4), 66–93. (2024). <https://doi.org/10.54469/DHZM677HG>.
6. “Eudemonia of a Machine,” *AI and Ethics* (2024). <https://doi.org/10.1007/s43681-024-00553-z>
7. “Polemics on Perfection – Maimonides’ Last Law on Slaves Resolves the Debate,” *Review of Rabbinic Judaism* 27, 2 (Sep. 3, 2024). <https://doi.org/10.1163/15700704-20240007>.
8. “A Jewish Theological Perspective on Technology (Orthodox)”, *St Andrews Encyclopaedia of Theology* (July 4, 2024). Ed. Brendan N. Wolfe et al. <https://www.saet.ac.uk/Judaism/AJewishTheologicalPerspectiveonTechnologyOrthodox>

9. "To Make a Mind – a Primer on Conscious Robots," *Theology and Science* (Jan. 18, 2024), <https://doi.org/10.1080/14746700.2023.2294530>.
10. "Let Us Make Man in Our Image' - A Jewish Ethical Perspective on Creating Conscious Robots," *AI and Ethics* (Sep. 12, 2023), <https://doi.org/10.1007/s43681-023-00328-y>.
11. "Autonomous Weapons Systems and Battlefield Dignity – a Jewish Perspective." In "Alexa, How Do You Feel about Religion?" *Technology, Digitization and Artificial Intelligence in the Focus of AI*, edited by Anna Puzio, Hendrik Klinge, and Nicole Kunkel. Darmstadt: WBG (2023), https://divreinavon.com/pdf/AWS_BattlefieldDignity_aJewishPerspective.pdf.
12. "The Virtuous Servant Owner – A Paradigm Whose Time Has Come (Again)," *Frontiers in Robotics and AI* 8 (2021). <https://doi.org/10.3389/frobt.2021.715849>.
13. The Trolley Problem Just Got Digital: Ethical Dilemmas in Programming Autonomous Vehicles, Pre-Print 2018 – published *BDD*, Vol. 38-40, 2026, <https://dx.doi.org/10.2139/ssrn.5115279>
14. The Binding of Isaac, *Hakira*, Vol. 17, Summer, 2014
15. Spin Explained: On Fallen Angels, Free Will, and Fixing the World, *Shofar*, Purdue University Press, Vol. 28, No. 2, 2010
16. Ha-Zad Hillazon - Trapping the Murex trunculus, *Torah u-Madda Journal*, Yeshiva University, 2006
17. The Hillazon and the Principle of 'Muttar be-fikha', *Torah u-Madda Journal*, Yeshiva University, 2001

Public Scholarship

1. On Concealing Tekhelet And Revealing the Shekhinah, *Jewish Bible Quarterly*, Vol. 41, No. 1, 2013
2. Atonement by the Priestly Garments, *Chidushei Torah Journal*, 2011
3. Equal to All the Mitzvot in the Torah, *Chidushei Torah Journal*, 2010
4. Rav's Beautiful Ratio: An Excursion into Aesthetics, *B'Or Ha'Torah*, 2010
5. The Psychology of Being Commanded, *B'Or Ha'Torah*, 2009
6. Greater is the One Commanded: A New Perspective on an Old Dispute, *Chidushei Torah Journal*, 2009
7. Halacha, Ethics and Aesthetics, *Everett Journal of Jewish Ethics*, 2008
8. Erev Yom Kippur: The Purpose of the Day as seen through Talmudic Anecdotes, *Chidushei Torah Journal*, 2008
9. Anticipation and Consummation: A Perspective on the Shofar, *Alei Etzion Journal*, Vol. 15, 2007
10. The Kiss of Esau, *Jewish Bible Quarterly*, Vol. 35, No. 2, 2007
11. God Regrets Four Things, *Alei Etzion Journal*, Vol 14, 2006
12. Begeg v. Simlah - Is there a difference?, *Jewish Bible Quarterly*, Vol. 32, No. 4, 2004
13. Pi-Hahiroh - The Mouth of Freedom, *Jewish Bible Quarterly*, Vol. 27, No. 4, 1999
14. Yosef is Still Alive - A Lesson in Divine Providence, *Jewish Thought*, OU Publications, Vol. 5, Num. 1, 1998

15. The Shalshet: Mark of Ambivalence, *Jewish Thought*, OU Publications, Vol. 4, Num. 1, 1996

CONFERENCES

1. **AI Week, Tel Aviv University, 2025**
“It is Not Good for Man to Be Alone – I Will Make Him a Lovebot?”
2. **Shining a Light on AI: Ethics and Human Rights, Reichman University, 2025**
Panel Discussion: Whose Values Shape AI: Law, Ethics and Human Rights
3. **Living with Machines: Jewish Ethical Perspectives on AI, Yeshiva University, 2025**
“Overview of the Jewish Voice on Ethical Dilemmas in AI”
4. **AI Startup Summit, Santa Catarina, Brazil, 2025**
“Hath Man No Advantage Over Machine?
On ChatGPT and the Meaning of Life”
5. **World Congress of Jewish Studies, Hebrew University Jerusalem, 2025**
“It is Not Good for Man to Be Alone – I Will Make Him a Lovebot?”
6. **First Israeli Conference on the Philosophy of AI, Haifa University, 2025**
“Transhumanism: Ethical and Existential Dilemmas of Moral Enhancement via Brain Chips”
7. **18th Annual Medical Ethics Society Conference, Yeshiva University, 2025**
“Moral Enhancement Chips and the Slaughter of the Yetzer Hara”
8. **Augmented Humanity, Universidad Pontificia Bolivariana, 2024**
“Humanity Augmented: On Transhumanism and Posthumanism”
9. **Volcano Innovation Summit, Antigua, Guatemala, 2024**
“Beyond Code: The Burning Ethical Questions in AI”
10. **29th Torah and Science Conference, Bar Ilan University, 2023**
“Man Hath No Advantage Over Machine?
On the Existential Implications of Generative AI”
11. **AI Week, Tel Aviv University, 2023**
“Autonomous Weapons Systems and Human Dignity”
12. **Judaism, Jews, and Artificial Intelligence (AI): Machine Learning vs. Enduring Wisdom, Arizona State University, 2023**
“In Your Face: Deepfakes Meet Deep Ethics”
13. **World Congress of Jewish Studies, Hebrew University Jerusalem, 2022**
“From iRobot to myRobot - A Jewish Ethical Perspective on Conscious AI.”
14. **AI Week, Tel Aviv University, 2022**
“The Moral Status of a Humanoid”
15. **25th Torah and Science Conference, Bar Ilan University, 2018**
“The Trolley Problem Just Got Digital: Ethical Dilemmas in Programming Autonomous Vehicles.”
16. **Limmud Turkey, 2015**

“Spin Explained: On Fallen Angels, Free Will, and Fixing the World.”

17. 19th Torah and Science Conference at Bar Ilan University, 2012

Poster: “The Tongue of a Dog Teaches all of Egypt.”

18. 18th Torah and Science Conference, Jerusalem College of Tech., 2011

Poster: “Keeping an Eye on Safety.”

19. 16th Torah and Science Conference, Bar Ilan University, 2009

“Spin Explained: On Fallen Angels, Free Will, and Fixing the World.”

20. 7th Miami International Conference on Torah and Science, 2007

“Rav’s Beautiful Ratio: An Excursion into Aesthetics.”

21. IP-SOC 2004, IP Based SoC Design Forum, Paris, 2004

“SOC IP Qualification & Emulation Environment.”