

Aviel D. Rubin, Ph.D.

Cybersecurity Leader • Board Director
Expert in Technology Risk & Governance

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Professional Summary

Dr. Avi Rubin is a technology executive, board member, and cybersecurity authority with more than 30 years of experience spanning academia, entrepreneurship, and national policy advisory. As Founder and Managing Partner of Harbor Experts and Harbor Labs, he has led high-impact engagements for Fortune 500 companies, global law firms, and government agencies in the areas of cybersecurity, medical device security, and regulatory compliance. A former tenured Full Professor of Computer Science and Technical Director of the Johns Hopkins Information Security Institute, Dr. Rubin testified before Congress, advised the U.S. Department of Defense and other federal bodies, and shaped best practices in critical infrastructure protection and technology governance.

Dr. Rubin currently serves on the Board of Directors of IronCircle, a cybersecurity education company, and has previously served on the nonprofit boards of the Maryland Israel Development Center and the USENIX Association. Recognized for bridging technology, policy, and business strategy, he brings extensive expertise in technology risk oversight, AI and data governance, and strategic cybersecurity leadership.

Board & Governance Experience

- **Director**, Iron Circle (2025 – Present)
Provide strategic oversight for an emerging online cybersecurity education company; advise on growth strategy, curriculum integrity, and digital security.
- **Director**, Maryland Israel Development Center (MIDC) (2013 – 2018)
Advised on technology partnerships, cybersecurity collaborations, and economic development initiatives between Maryland and Israel.
- **Director**, USENIX Association (2000 – 2004)
Elected by peer vote to help guide one of the world's leading computing research organizations; supported strategic realignment and membership growth.

Executive Experience

- **Founder & Managing Partner**, Harbor Experts (2023 – Present)
Lead a global team of technical experts providing consulting, expert witness services, and strategic cybersecurity assessments in high-stakes litigation and regulatory matters.

- **Founder**, Harbor Labs (2011 – Present)
Built a leading cybersecurity consultancy serving the medical device and healthcare technology industries.
- **Founder & President**, Independent Security Evaluators (2005 – 2011)
Pioneered one of the first private cybersecurity evaluation firms. Established methods for penetration testing and system assurance that became industry standards.
- **Research Scientist**, AT&T Labs & Bellcore (1994 – 2002)
Conducted pioneering research in cryptography, network security, and secure communications protocols; multiple patents granted.

Select Testimony & Advisory Highlights

- **U.S. Congress**: Testified before the House Committees on Administration, Oversight, and Science & Technology.
- **Pentagon**: Presented high-level briefing on embedded device security.
- **Federal Trade Commission**: Expert testimony on consumer data protection frameworks.
- **Maryland Legislature**: Testimony on IoT and connected device security.
- **Expert Witness**: Provided technical testimony in over 100 IP and cybersecurity cases involving Microsoft, Apple, IBM, Google, Cisco, Amazon, Samsung, Meta, and many others.

Recognition & Awards

- **Fulbright Scholar** (Tel Aviv University, 2010–2011)
- **EFF Pioneer Award** for contributions to digital rights and security, 2004.
- **Baltimorean of the Year**, Baltimore Magazine, 2004.
- **TED Speaker** (2011 & 2015).

Academic & Research Leadership

- **Professor Emeritus** of Computer Science, Johns Hopkins University (2023 – Present)
- **Technical Director**, JHU Information Security Institute (2003 – 2023)
- **Directed national research initiatives** on healthcare cybersecurity, cryptography, Internet of Things and voting technology. Advised over a dozen Ph.D. graduates now in leadership roles across academia and industry.

Education

- Ph.D., Computer Science & Engineering, University of Michigan, Ann Arbor (1994)
- M.S.E., Computer Science & Engineering, University of Michigan, Ann Arbor (1991)
- B.S., Computer Science (Honors), University of Michigan, Ann Arbor (1989)

Books & Publications

Author of 6 books and 100+ peer-reviewed papers on cybersecurity, privacy, and cryptography, including:

- **Firewalls and Internet Security: Repelling the Wily Hacker** (Addison Wesley, 2003)
- **Brave New Ballot** (Random House, 2006)
- **Web Security Sourcebook** (Wiley, 1997)