

# Harold Toomey

CISSP, CISA, CISM, CRISC, CGEIT

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I am both a seasoned cybersecurity professional and a STEM tutor focused on calculus and physics.

## STEM SPECIALTIES

- Advanced Math (Proofs, Numerical Analysis, Real Analysis, Abstract Algebra, DiffEq.)
- Calculus / Precalculus / Algebra / Geometry / Basic Math
- Physics / Chemistry
- Cybersecurity / Cryptography
- Electrical and Computer Engineering
- Computer Science (Microsoft Office apps, C, C++, Java, Python)
- Logic (digital and philosophical) / Statistics

## EDUCATION

- **\*MS** Mathematics, Texas A&M, Enrolled in distance graduate program, 2026 - 2030
- **BA** Mathematics, Southern New Hampshire University (SNHU), 4.00, 2025
- **MS** Electrical and Computer Engineering, Brigham Young University (BYU), 3.69, 1989
- **BS** Electrical and Computer Engineering, Brigham Young University, 3.70-Cum Laude, 1988

## CERTIFICATIONS

- CISSP, CISA, CISM, CRISC, CGEIT, ITIL v3, NSA IAM, PSIRT, CNA, CVSS
- Security product certifications from McAfee, Symantec, AXENT, and ISS (IBM)

## WORK EXPERIENCE

**Calculus & Physics Tutor** WyzAnt, Inc. 2009 – Present

- 3,100+ hours tutoring 60 different STEM subjects. I focus on calculus, physics, advanced mathematics, and cybersecurity.
- Perfect 5-star student feedback rating.

**Physics & Chemistry Teacher** Ancora Academy, McKinney Campus 2024 – Present

- Teach high school students 2x week in physics, chemistry, and computer skills.

**Assoc. Director, Product Cybersecurity** Raytheon 2019 – 2024

- United Technologies (2019) → Raytheon Technologies (2022) → Raytheon (2024).
- Member of the Product Security Architecture and Risk Evaluation team, RTX CODE Center, Raytheon Technologies.
- Responsible for:
  - Secure Systems Development Life Cycle (SSDLC) best practices
  - Product Cybersecurity Maturity Model (PCMM) program
  - Secure Software Development Framework (SSDF) service lead

- CODE Center Metrics Lead
- Threat Model Mentoring Lead
- Participate in Architecture Review for Cyber Hardening (ARCH) reviews
- Build product security training curriculum
- Annual Cybersecurity Summits

**Sr. Security Architect & Director** McAfee / Intel Corp. 2006 – 2019

- Titles included: Sr. Product Security Architect, Principal Product Security Architect, Senior IT Security Engineer, Network Product Manager, and Group Product Manager.
- McAfee's Vulnerability Management team technical lead.
- Product Security Incident Response Team (PSIRT) Manager.
- Developed, published, and maintained the Agile Security Development Lifecycle (SDL),
- Created the Product Security Maturity Model (PSMM).
- Mentored product development teams in Security Architecture, Design Reviews, Threat Modeling, and all aspects of the SDL.
- Managed a worldwide satellite team of 120+ software security architects (Product Security Champions) to help them proactively find and fix vulnerabilities in source code, products, servers, and cloud (AWS, Azure).
- Key contributor in obtaining McAfee's first ISO 27001 certifications.

**Senior Product Manager** Symantec Corporation 2001 – 2006

- Managed the product team for all security policy content for Enterprise Security Manager (ESM), introducing application, database, web server, and firewall checks while supporting 50+ operating system platforms.
- Initiated development of best practice security policies covering ISO 17799, HIPAA, SOX, FISMA, NIST, Basel II, and other regulations and standards, producing at least two new regulatory policies each quarter.

**Technical Product Manager** AXENT Technologies 1998 – 2001

- Managed network and host-based vulnerability scanners from cradle to grave, filling gaps in the product portfolio and generating \$3M revenue annually.
- Presented frequently at vendor and security conferences, trade shows, and universities.
- Designed and implemented an externally facing Web site to download NetRecon and issue license keys, logging over 10,000 downloads over a two (2) year period.

**VP of Engineering** CallWare Technologies, Inc. 1994 – 1998

- Pioneered unified messaging by seamlessly integrating networked computers (NetWare and Windows) with PBX telephone systems while developing the industry's first Windows-based client to display and manage voicemail messages like email.
- Rapidly promoted from Senior Software Engineer to Development Team Leader, to Director of Development, then to VP of Engineering, where I built and managed a team of seventeen (17) software development engineers.
- Extensive programming using C/C++ for telephony applications.

**Network Software Engineer** Novell, Inc. 1992 – 1994

- Developed Novell's upgrade and migration products as well as core NetWare utilities for NetWare 4.x using C/C++. Designed and coded the user interface for Novell's directory services management tools.
- Promoted from Software Engineer III to Development Manager. Managed a development team of six (6) software engineers for the NetWare operating system.
- I earned my NetWare 4 CNA, CNE, and ECNE (Master CNE) certifications.

**College Instructor** Sinclair Community College – Dayton, OH 1992

- Part-time night school instructor teaching a C/C++ programming language course (CIS 233).

**Systems Engineer/Officer**

U.S. Air Force

1989 – 1992

- Commissioned Air Force officer (Captain), honorable discharge, SECRET security clearance, Commendation Medal.
- Supervised eight (8) engineers and directed all graphics programming for real-time flight simulations.
- Programmed in C, Ada, and FORTRAN on UNIX workstations. Developed TCP/IP and UDP network drivers as well as real-time graphical avionics consoles. System Administrator for UNIX workstations in a classified environment.

**Math Lab Tutor**

Brigham Young University (BYU)

1985 – 1989

- Worked in the BYU Mathematics Lab for 2 hours/day, helping students with calculus and other mathematics subjects.
- Conducted end-of-semester math final exam prep. seminars in college algebra, precalculus, and calculus.
- Independent tutoring of college students in mathematics and engineering.

**Voluntary Representative**

The Church of Jesus Christ of Latter-day Saints

1983 - 1985

- Full-time voluntary service as a missionary in South Africa & Zimbabwe.
- Held various positions and supervised the activities of eight (8) other representatives.
- Developed extensive interpersonal relations, organizational, teaching, and time-management skills.

**LEADERSHIP AND TRAINING**

- Ward Mission Leader, McKinney 3<sup>rd</sup> Ward, 2022 – 2025
- Scoutmaster, Boy Scouts of America, 2016 – 2022
- President, ISSA North Texas Chapter, 2013
- Vice President, ISSA North Texas Chapter, 2012
- Board of Directors, ISSA Utah Chapter, Education and Seminar Director, 2005 & 2006
- McAfee Emergency Response Team, certificate of proficiency, 2011 – 2018
- McAfee VirusScan and ePolicy Orchestrator Training, McAfee, Inc., 2008
- Pragmatic Marketing Certified, Pragmatic Marketing, 2006 & 1999
- Professional Presenter Training, Blue Streak, 2003
- Wood Badge, Boy Scouts of America, 2001
- XP Immersion Training, Object Mentor, Inc., (agile programming methodology), 2001

**WHITE PAPERS**

- See my 90+ STEM Harold's Cheat Sheets at <https://www.toomey.org/tutor/>
- See my publications at <http://www.toomey.org/harold/resume/publications.html>

**AWARDS & RECOGNITION**

- Alpha Sigma Lambda Honor Society, with a 4.0 GPA at SNHU
- Intel "Above and Beyond Execution" Group Recognition Award
- McAfee Certificate of Recognition, 10 Years of Dedicated Service
- Symantec A++ Award
- CallWare 5.1 Extra Miler Award
- Novell Employee of the Month
- U.S. Air Force Commendation Medal
- U.S. Air Force Company Grade Officer of the Quarter
- BYU ROTC Distinguished Technical Graduate
- BSA Eagle Scout with silver palm

## MISCELLANEOUS

- Microsoft O365 with Copilot applications expert (Word, Excel, PowerPoint, Outlook, etc.)
- Working toward my Ph.D. in Mathematics
- Travelled to 27 different countries on five (5) continents, including North, Central America, South America, Europe, Africa, Asia, and Japan
- Fluent in English and Afrikaans. Speak some German and Spanish. Program in thirteen (13) computer programming languages

## REFERENCES

- WyzAnt: <https://www.wyzant.com/Tutors/CalculusTutor>
- LinkedIn: <https://www.linkedin.com/in/htoomey/>
- Facebook: <https://www.facebook.com/htoomey>
- References: <http://www.toomey.org/harold/resume>

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