

Exponent®
Engineering & Scientific Consulting

Summer Craze Fowler, M.S.

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Professional Profile

Summer Fowler brings over two decades of experience aligning cybersecurity, IT, and enterprise risk management with core business objectives. As a C-suite executive at leading autonomous vehicle and robotics companies, she has architected and executed multi-year strategies that not only protect digital assets but also drive innovation and operational efficiency. Her leadership has consistently delivered measurable results, including multimillion-dollar cost savings, streamlined risk management frameworks, and the successful integration of AI governance into enterprise operations.

Throughout her career, Summer has built and led high-performing teams across cybersecurity, IT, DevOps, and corporate responsibility functions. At organizations like Torc Robotics, Motional, and Argo AI, she has designed and scaled cybersecurity programs from the ground up, implemented advanced threat detection systems, and established enterprise-wide policies aligned with global standards such as ISO 27001, NIST CSF, and GDPR. Her ability to foster cross-functional collaboration and align technical initiatives with executive priorities has made her a trusted advisor to boards and executive teams alike.

Beyond her executive roles, Ms. Fowler is a nationally recognized voice in cybersecurity, having delivered keynote addresses at major industry conferences, testified before Congress, and taught at Carnegie Mellon University for over a decade. Her thought leadership spans topics from AI risk to diversity in tech, and she has been honored as one of the Top 25 Women in Cybersecurity. Clients benefit not only from her technical acumen but also from her ability to communicate complex risk landscapes in clear, actionable terms that empower informed decision-making.

Academic Credentials & Professional Honors

M.S., Information Science, University of Pittsburgh, 2000

B.S., Computer Science, University of Pittsburgh, 1999

Academic Appointments

Duquesne University (2024) Applied Threat Systems undergraduate course

Carnegie Mellon University (2014 - 2024) Cybersecurity Policy & Governance graduate course

Metrics & Measurement executive education course

Prior Experience

Chief Information Security Officer, Torc Robotics, 2023—2025

Senior Vice President, Cybersecurity & IT, Motional, 2022—2023

Chief Information Officer/Chief Information Security Officer/Chief Responsibility Officer, Argo AI, 2018—2022

Technical Director of Cybersecurity Risk & Resilience Directorate, Software Engineering Institute of Carnegie Mellon University, 2007—2018

Technical Project Manager, Johns Hopkins University Applied Physics Laboratory, 2006—2007

Senior Associate, Booz Allen Hamilton, 2005—2006

Northrop Grumman Corporation, Deputy PM/Systems Engineering Lead, C4ISR Navy Programs, 2000—2005

Professional Affiliations

Board of Directors (Brentwood Bank)

Board Member (The Forte Group)

2020-2023 InfoSec World Advisory Board Co-Chair

2017 Advanced Fellowship in Cyber Studies CSIS

2017 Chair IEEE Secure Development Conference

2016-2017 Leadership Pittsburgh XXXIII

Publications

Notable publications

Fowler, S. (Sep 2017) TheHill.com http://thehill.com/blogs/pundits-blog/technology/350048-equifax-data-breach-heres-what-we-can-learn-from-it

Curtis, P; Fowler, S., Tobar, D.; Ulicne, D. The CISO Academy Researching New Ways to Build a Cybersecurity Workforce, Technical Report, CMU/SEI-2016

Fowler, S. (Feb 2017) Moving Beyond Resilience to Prosilience [blog post] https://insights.sei.cmu.edu/insider- threat/2017/02/moving-beyond-resilience-to-prosilience.html

Fowler, S. (Aug 2016) Gender Diversity And Why We Need Women To Help Shape The World [blog post] https:// itspmagazine.com/from-the-newsroom/heres-why-we-need-women-to-help-shape-the-world

Fowler, S. (Aug 2016) Evolving The Tech Bro Culture And Attracting More Women [blog post] https://itspmagazine.com/from-the-newsroom/evolving-the-tech-bro-culture-and-attracting-more-women:

Project Experience

Led the cross-functional team that designed and implemented our Autonomous Vehicle Cybersecurity Development Lifecycle and successfully underwent an independent assessment by TÜV SÜD, validating rigor across engineering, product, and supplier workflows. The result was stronger regulatory readiness and customer trust, clearer security gates in the SDLC, and measurable reductions in cyber risk across releases. The AVCDL is now open source and available for the community.