



# Natalie Kilber

Founder & Cybersecurity and Emerging Technology  
Leader

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## TALKS & OUTREACH

- "Helping Organizations Anticipate and Approach Emerging Technology Threats" FIRST CTI, Nov 2023
- Security Forum: "Analysing the Quantum Threat - a perspective from the industry" - April 2023
- Hackeriet at Winterkongress CCC: "Quantum Threat Inflation - riding the Cyber Wave", 2023
- MHP Festival of Digital Excellence: "Cybersecurity Challenges at the nexus of OT & IT", 2022
- Digital Transformation Panel: "GDW x MHP", 2022
- rC3: "Tales from the Quantum Industry", 2021
- ada lovelace festival: "Quantum World: Industry Application Panel", 2021
- IEEE QSET Paper & Talk: "Cybersecurity for Quantum Computing", 2021
- "Future of Encryption-Panel", PQW and Quantum Topics, Hub Security, 2021
- BITKOM Quantum Summit Talk "CTRL + N: Can we shortcut innovation?", 2021
- Association for Computing Machinery, ASPLOS industry Mentor for Postgraduates since 2021
- One Quantum for Women Mentor since 2020
- MCQST industry panellist Quantum industry, 2019
- Freundes- und Foerderkreis des Deutschen Museums - Quantum Expert since 2019
- FEM(IT) Talk "Q#", 2018
- Cardiff University Postgraduate Chair - Physics Talks, 2016

## CERTIFICATIONS

- **FOR508: Advanced Incident Response, Threat Hunting, and Digital Forensics** - GCFA, Dec 2022.
- **ICS612: ICS Security in Depth** - SANS Institute, July 2022
- **Optical Information Processing – from Quantum Computing to Artificial Intelligence** - DPG/WE-Heraeus-Seminar, 2021
- **Creative Destruction Lab Quantum Stream** - CDL Toronto, 2020
- **IBM Quantum Computing** with Qiskit, 2020
- **Quantum Wave Microscopy Lab** - Okinawa Institute of Science and Technology, 2016
- **Genetics/ Molecular Wet Lab Techniques Certificate** - University of Pisa, 2015
- **Cultural Ambassador to Japan** - Robert Bosch Foundation, 2009

## SUMMARY

**Technical Expert** bridging interdisciplinary experience in product development and operational optimization across the cybersecurity, emergent technology and quantum industry in both national and international operations. Fearless and charismatic leader, having great experience in negotiations, making presentations, and talking on stage.

## EXPERIENCE

2023 - Present

### Head of Cybersecurity, Senior Director Harman

Responsible for the identification of security goals, priorities, and initiatives based on industry best practices, business requirements, and risk assessments.

- Develop cybersecurity operations and engineering roadmaps, ensuring alignment with corporate policies, standards, and regulatory requirements.
- Build the vision and roadmap for efforts to validate the security of our code, products and enable innovation through threat intelligence and shifting left.
- Foster a culture of cybersecurity awareness and education within the organization, promoting a proactive approach to cybersecurity.
- Represent Harman externally as the spokesperson on cybersecurity topics.

2023

### Global Industrial Cybersecurity Portfolio Manager Siemens Energy

Managing and developing the global Cybersecurity Portfolio of Siemens Energy efficiently and effectively as a result of forward-looking, actionable threat intelligence.

- Working with multiple stakeholders across different industries to align requirements for a global security strategy across business areas.
- Creating virtual teams to prioritize cross-functional security programs with requirement-based testing in subsequent PLM areas.
- Opportunity screening for global trends and threats on the industry and security tool landscape.

2021 - 2023

### Head of ICS Security & Emergent Technology Strategy MHP Porsche

Converted strategic plans into tactical reality by establishing and building new ICS Security technologies and OT products in the manufacturing and mobility industry. Devised and implemented new programs and initiated successful processes to develop new products.

- Quantum Expert SME and ICS Cybersecurity advisor to the board.
- Building, training and leading teams for Threat Intelligence and incorporating DevSecOps Services in existing operations, while developing the ICS security portfolio.
- Managing Cybersecurity, IoT, and AI partnerships, while evaluating potential mergers and acquisitions relevant to the manufacturing and mobility sector.

2020 - Present

### CEO & Founder NABLA CO

Established to support emergent technology start-ups and funding bodies to achieve their objectives. Provides solutions to optimize operational performance across a broad range of areas, with a particular focus on cybersecurity, artificial intelligence, quantum technology, and overall product development.

- External Evaluator to national funding committees in the EU for quantum, AI and cybersecurity topics.
- Existing Technical Partnerships in Cybersecurity and Quantum Communication startups to develop new technologies and respective business cases.
- Supported the re-orientation of startups, acting as interim CTO/advisor, developing and implementing the conceptualization, development as well as product launch; guiding technical strategy and business development.

## WORKING STUDENT

- Novel cryo-electron microscopy characterization by DNA sample preparation and cryo-sample plunging of living specimens, SNR analysis comparing the Krios Titan with Shintake lab's EM on the basis of the genetic samples - 2016, Okinawa Institute of Science and Technology (OIST).
- Recurring physics and entrepreneurial studentships in innovation management, microelectronics and system design - 2009-2010, Fraunhofer: Berlin, Karlsruhe and Strasczeg Center: Munich.

## DPG/FFKDM/VDI

- Member of several academic and industrial consortiums at the nexus of Quantum, SW & HW: DPG, FFKDM, ASPLOS, One Quantum.

## LANGUAGES

German, English, Russian, Japanese, French, Spanish, Welsh, Mandarin, Norwegian

(proficiency in order)

2018 - 2020

### Emergent Technology Expert

#### MICROSOFT

Built innovative products and PoCs focused on the research and development of new technology applications in quantum technologies in order to commercialize innovative vertical-axis cloud business partners. Collaborated with global product teams to define strategic and tactical initiatives in securing internal investment during a period of recession for quantum technology funding in Europe. Achieved considerable recognition within Microsoft being named Quantum Representative for Germany and emerged as one of the AI Champions in Germany 2019.

- Effective emergent technology software developer and advisor for secure IoT, Cloud, AI and emergent technology projects internal and external.
- Developed IoT, ML and quantum products in cloud offerings, architected and led PoCs with customers.
- Directed discussions and established partnerships with Quantum Tech entities in academia and industry, whilst supporting leadership on development initiatives in Quantum internally.

2018 - 2018

### Interim Technical Manager

#### EEINS

Led technical management, engagement planning and project management of a wide variety of endeavors for clients that ranged from an OEM to automotive suppliers. Regularly served as an interim executive to ensure successful project implementation.

- Steered several embedded systems software projects as interim technical Manager, including leading a functional safety AUTOSAR basis software project with a team of 12 developers for enhanced safety and security adjustments at ASIL B (ISO 26262).
- Guided a high-volume project during a successful escalation process, cultivated close and productive relationships through effective communication including site visits, establishing shared understanding and commitment to expectations leading to further new contract closures.
- Designed, developed and coded a new cryptocurrency proof of concept in Solidity on Ethereum for an internal compensation program.

2016 - 2017

### Reverse Engineering, Spin Ice Researcher

#### Cardiff University Graduate Physics Labs

- Investigated spin dynamics of frustrated systems, specifically Ising pyrochlore magnet Dy<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub> in ultra-low temperature (<100mK) magnetic labs by probing the dominating spin-phonon-mediated relaxation of the electronic spin system dynamics with a novel cryo-susceptometer concept.
- Reverse Engineering old/missing laboratory equipment by system-level analysis, functional analysis, testing/creating 3D CAD models, and designing ad-hoc ASICs for sub-mK as well as ambient temperatures.

2012 - 2015

### Business Analyst & SW Developer

#### MHP Porsche

- Introducing innovation management to the organization and assisting managing directors in introducing initial portfolio and project management.
- Innovation management analyst for the technology radars, future portfolio and market analysis.
- Software Developer for internal projects.

## EDUCATION

2021 - 2024

Dr. rer. nat. in Computer Science (self-funded, private)

University of Stuttgart

2015 - 2017

MSc Diploma Quantum Physics

Cardiff University

2013 - 2015

BSc Physics (until 4th semester, 2009 pre-university enrollment)

University of Stuttgart

2011 - 2014

BA Social Entrepreneurship

HULT International Business School