Andreas Zeck

Electrical and Information Technology Engineering

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Certifications

ISMS Auditor (ISO/IEC 27001:2022)
International Certification Organization
2023

ISMS Security Officer (ISO/IEC 27001:2022)
International Certification Organization
2023

AMS 19011:2018 PROFESSIONAL
International Certification Organization
2023

ISMS 27001:2022 PROFESSIONAL
International Certification Organization
2023

ISMS 27001:2022 FOUNDATION
International Certification Organization
2023

BSI IT-Grundschutz-Praktiker
Federal Office for Information Security
2022

Volunteering

Bavarian Red Cross - Crisis Intervention & EMS
Deputy District Head of Information and Communication

Bavarian State Students' Council
Delegate

THWS (student Representation)
Speaker's Council, Faculty Council, Access Rights Coordinator

Chaos Computer Club e.V.
ERFA chairperson for Bamberg

Backspace e.V. (Makerspace)

Volunteer Fire Brigade Bamberg

Aspiring Electrical and Information Technology Engineer with a passion for innovative technologies and information security, backed with multiple certifications in the latter. Working on a LoRaWAN-based agricultural monitoring project in collaboration with Auburn University. Developed network and process control skills at Siemens, and offers IT consultancy for tailored infrastructures. Assumes a leadership role in disaster relief with the Bavarian Red Cross and represents students at the state level for the university.

Work Experience

SIEMENS AG — **September 2021 - present**
Dual Student (Bachelor + Apprenticeship) — Würzburg, Germany

- Involved in automating customer systems within critical infrastructure sectors, enhancing operational security and efficiency.
- Actively ensured compliance and prepared systems for information security standards and certifications, reinforcing data protection and cybersecurity measures.
- Led the renewal of departmental network infrastructure, incorporating advanced ESXi and Palo Alto technologies to bolster network security and performance.

Aronox — **January 2022 - present**
Freelancing — Bamberg, Germany

- Provides IT consulting and implementation for business networks and computer infrastructures, emphasizing custom, non-standard solutions that enhance efficiency and security.
- Specializes in leveraging Linux-based systems and open-source software to deliver innovative alternatives to proprietary solutions, optimizing client processes and infrastructure cost-effectively.

Julius-Maximilian University — **April 2020 - September 2020**
Research Assistant — Würzburg, Germany

- Engaged in penetration testing to highlight and demonstrate existing security vulnerabilities to professors, enhancing their awareness of current cybersecurity challenges.

Bavarian Red Cross EMS — **September 2018 - August 2019**
Federal Voluntary Service — Bamberg, Germany

Education

TU Würzburg-Schweinfurt — **October 2021 - February 2025**
Schweinfurt, Germany — B.E. Electrical and I.T. Engineering

Focus areas: Communications Technology, Automation and Robotics

SIEMENS AG — **September 2021 - February 2025**
Würzburg, Germany — Apprenticeship as a Mechatronics Technician

Bavarian Red Cross — **September 2018 - May 2019**
Kitzingen, Germany — German Paramedic

Projects

Distributed Network for Agricultural Monitoring — **May 2023 - April 2024**
https://sites.google.com/view/dnam-capstone/home

In collaboration with two international students from Auburn University, the DNAM project harnesses LoRaWAN and solar-powered LoRaLinks for advanced agricultural monitoring. This enables precision farming through real-time visualization of key parameters like soil moisture and temperature on a website with live mapping, integrating GPS data from each sensor.