

Stefan Koch

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Date of Birth 28.06.1989

Nationality: German



Work Experience

- 2022-today *Safety Engineer*, Tegrity Safety Engineering GmbH, Ingolstadt
- 2019-2022 *Safety Engineer*, Philotech GmbH, Manching, Germany
- 2018-2019 *Safety and Certification Engineer*, Aircraft Design Certification GmbH, Nürnberg, Germany

Project Experience

- 2022 Avionics System Safety Assessments — Airbus Defense and Space
- 2021-2022 Moderation of System FMEA, FMEA-MSR, Various Truck Systems — MAN SE
- 2021-2022 Safety Manager High-Voltage Charging SWC — Philotech GmbH
- 2021 Manned/Unmanned System-of-Systems PHA — Airbus Defense and Space
- 2021 Preliminary Hazard Analysis, Software Requirements Hazard Analysis, Software Design Hazard Analysis, Quantitative/Qualitative FTA, Safety Assessment Report for various aircraft support systems — Airbus Defense and Space
- 2020 Aircraft FHA and Avionics Systems PSSA — Airbus Defense and Space
- 2020 FHA, PSSA, FTA, SAR for various aircraft support systems — Airbus Defense and Space
- 2020-2022 Moderation of FHA/HARA of vehicle functions for trucks — MAN SE
- 2020 Verification Reviews for HARA/FHAs for autonomous driving — AUDI AG
- 2020 FMEDA for quantitative fault analysis on hardware level — Vibracoustic AG
- 2020 Qualitative and quantitative Fault Tree Analysis for autonomous driving — AUDI AG
- 2019 FHA and Functional Safety Concept for driver assistance functions — AUDI AG
- 2019 Technical Safety Concept for ECUs of driver assistance systems — AUDI AG
- 2019 Creation of Safety Plans for the whole Safety Life Cycle for components of driver assistance systems — AUDI AG
- 2019 Creation of Safety Case for driver assistance systems — AUDI AG
- 2019 FHA/PSSA for an electric propulsion system for CS23 aircraft — H55 S.A.
- 2018 Safety Assessment for Design Changes of CS 23 aircraft — Aircraft Design Certification GmbH
- 2018 Aircraft FHA/PSSA for CS23 aircraft — BRM Aero

Education

- 2014-2017 MSc. Aerospace Engineering, Focus on Flight Control Systems, Technical University of Munich
2009-2014 BSc. Aerospace Engineering, Technical University of Munich

Certificates and Continuous Education

- Functional Safety Professional ISO26262 Certification — TÜV Süd
- Certified FMEA Expert and Moderator — TÜV Süd
- Functional Safety Red Belt Certification — CertX
- ASQF Certified Professional for Project Management
- ISTQB Certified Tester: Foundation Level
- Development of Safety Critical Systems according to ARP 4754A/4761 Training — Philotech Academy
- Development of Safety Critical Systems (MIL-STD 882E) — Philotech Academy
- Software Development according to ED12B/DO-178B and ED12C/DO-178C — Philotech Academy
- Requirements Writing — The University of New South Wales
- Mathematical Techniques to Improve the Utility of a Hazard Risk Matrix — ISSS
- System Reliability Analysis Through Integrated Methods — ISSS
- Optimizing System Safety Evaluations Results — ISSS
- Developing Electronic Systems for Safety-Critical Applications — ISSS
- eCARS2x: Electric Cars: Technology — DelftX

Tool Knowledge

- Isograph Reliability Tools / Fault Tree+
- APIS IQ FMEA 6.5/7.0
- Rational DOORS
- FHA, HARA, FMEDA in Microsoft Excel
- Matlab/Simulink

Language Proficiency

- German (Mother Tongue)
- English (Fluent)

Other

- Member of the International System Safety Society
- Private Pilot License (EASA, FAA)