CYRIL COCHENNEC

Functional System & Safety Engineer

highly dynamic and motivated

Transport engineering | RAMS

After studying safety engineering in France and finishing my studies with a first experience by Thales , I decided to move to automotive field for a short experience before challenging and exporting my skills in Safety abrod and especially to Germany. I discovered there new interests for future aerospace systems first by AES GmbH on Air taxi systems. Now it's turn for me to find a new challenge on new future and innovative systems to expand my knowledge and fields of expertise in Quality and Safety engineering in Austria to bring multi-cultural working experience and to discover also a new way to work and manage challenges on different projects and fields of expertise.

32 ans
Permis de conduire

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FORMATIONS

Engineering Degree in industrial systems engineering
ISTIA, Engineering school of the university of Angers
Septembre 2011 à août 2016

Quality and functional safety of industrial systems
http://www.istia.univ-angers.fr/fr/index.html

High School Diploma
Lycée Duplessis-Mornay, Saumur, France
Septembre 2009 à juillet 2011

Sciences high school Diploma with specialty in German and Physics-Chemistry

COMPÉTENCES

Soft Skills
- dynamic
- Team spirit
- proposition force
- willingness to learn and share

Quality Management
- Certification standards (ISO 9000, ISO 14000) ★★☆☆☆
- Maturity Models (CMMI, SPICE) ★★☆☆☆

Functional Safety & HW/SW Engineering
- Reliability prediction and operational reliability ★★★★½
- FMECA and Fault Tree Analysis ★★★★½
- Automotive Standard ISO 26262 ★★½☆☆
- Aerospace Standards ARP 4754/4761 ★★★☆☆
- FTA and reliability prediction computation tools (ISOGRAPH/ ITEM Toolkit) ★★★½☆
- Railway standards EN 50126/50876/50129 ★★★★☆
- DO 254/DO 178B ★★★☆☆

Softwares
- Safety tools : eXpress, Grif, APIS,-IQ, SCIO, Reliability Workbench ★★★☆☆
- Office tools ★★★★½
- System Engineering : PTC Integrity, DOORS

Languages
- English : Fluent ★★★★☆
- German : B1-B2 level ★★★☆☆
- French : Mother tongue ★★★★★

EXPÉRIENCES

Functional Safety Engineer by Knorr-Bremse on behalf of T&S GmbH
Knorr-Bremse - Juin 2023 à juin 2025

- Contributed to the development of the Functional Safety Concept (FSC) and Technical Safety Concept (TSC) for the rGSBC project, with focus on actuators and sensors (pressure sensors, control valves, wheel speed sensors).
- Authored and analyzed the fault reaction documentation for rECU, assessing system-level fault responses to component failure modes.
- Supported safety reviews: FMEA, FTA, and TSR evaluation; participated in system safety sprints, defining and validating safety targets.
- Performed consistency analysis between system design models and FMEA function allocation for EPS systems. Updated and optimized FMEA function allocations in Enterprise Architect based on system design specifications.

System & Safety Engineer by Hella GmbH on behalf of T&S group
Hella GmbH - Décembre 2020 à mars 2023 - CDI - München - Allemagne

- As Safety Engineer Assessment of FTA as well as System FMEA for temperature sensors and Torque modules as well as performing Expert Judgement for compliancy toward the ISO 26262 standard
- As System EnginnerPerform the assessment of the System requirement and Architecture Specification with DOORS and Rhapsoddy tools on Torque and temperature sensors subsystems for ECU on powertrains for new electric vehicles.

Functional Safety Engineer by Collins Aerospace on behalf of T&S GmbH
Collins Aerospace - Juin 2020 à novembre 2020

- Conducted safety analyses (FMECA) on satellite systems, including failure mode identification, transient effects assessment, and evaluation at product, system, and functional block levels.
- Analyzed and implemented safety requirements for the Tornado (VS-NFD) program: review, documentation, allocation to subsystems (mechanical, software, hardware), and verification of compliance with customer specifications.
- Developed functional block diagrams and technical documentation to support FMECA preparation: defined module-level functions, assessed output signals, failure modes, testability methods, and integration of Built-In Tests (BITs).

System Safety engineer by AES GmbH on behalf of T&S GmbH

AES GmbH - Octobre 2017 à mai 2020 - CDI - München - Allemagne

- As System Safety Engineer consultant for AES GmbH on behalf of T&S GmbH, my tasks were to lead RAMS studies on various systems for aircrafts and air taxis drones. Besides these studies, I was also part of system and HW engineering teams to help performing systems and HW specifications.
- Technical environment:
  -Generation of all Safety related documents (PSSA, FTA, FMECA, RP, RSA)
  -Application of all Safety related Aerospace standards and Reliability guides (ARP 4754/ APR 4761/ MIL-HDBK-217/IEC 62380/ CS-23)
  -Assessment of Product/System Specification (PRS/PDS)
  -Generation of HW related documents (BRS, ATS, BVP, and BDD) following DO-254.

Safety Engineer Consultant

Ligeron (groupe Ortec) - Septembre 2016 à juillet 2017 - CDI - Bagneux - France

- As consultat for Renault-Nissan by Ligeron my tasks was to perform Safety Analysis based on the ISO 26262 standard from the Item definition to the generation of Technical Safety Concept including the HARA, ASIL allocation, FTA generation and FSC generation on several chassis control systems (4 Wheel Steering, and Vehicle Motion Control).
- Technical environment :
  Application of ISO 26262 standard on safety critical systems (ASIL D)
  -Definition of ASIL based on HARA
  -Definition of FSC and TSC based on FTA and safety Goals

Sandwich Course in Functional safety and Reliability area as RAMS Engineer working student

Thales Systèmes Aéroportés - Septembre 2015 à août 2016 - Contrat de professionnalisation - Brest - France

- As working student by Thales, my tasks were to develop the expected reliability with OpenAltarica software and to perform and develop some studies to check how Altarica tools can be used to implement safety requirements into System Engineering tools (Arcadia) and also LCC studies to estimate the number of systems spares to be provided on-board for a mission.
- Technical environment:
  -Radar modelling with Open Altarica software.
  -Computation of Reliability and availability of the radar
  -Calculation and estimation of MUC costs (Maintenance under Operational Condition)
  -ILS computation process

CENTRES D'INTÉRÊT

Extra professional Activities

- Football
- Skiing, Mountain biking