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Top Skills

ARP 4761
ARP 4754
Quality Auditing

Languages

Turkish (Native or Bilingual)
English (Limited Working)
German (Elementary)

Şerefcan ERYAVUZ

Lead Avionics Engineer @ Turkish Aerospace | DO-254/DO-178C,
Quality Assurance
Ankara, Türkiye

Summary

As a Lead Avionics Engineer at Turkish Aerospace, one of the
world's top aerospace and defense companies, I have over five
years of experience in designing, developing, and testing hardware
and software systems for avionics applications. My mission is
to deliver high-quality and innovative solutions that meet the
requirements and expectations of our customers and stakeholders,
and comply with the highest standards and regulations in the
industry.

My field of expertise is ensuring the design assurance of avionics
hardware and software in accordance with the DO-254/DO-178C
standards, the international benchmarks for avionics safety and
reliability. I create and review the Hardware Process Assurance
Plan (HPAP) and the Software Quality Assurance Plan (SQAP), and
conduct conformity reviews of the hardware and software products.
I also collaborate with a diverse and talented team of engineers,
managers, and experts to integrate and optimize the performance of
the avionics systems that are used in various aircraft and platforms,
such as the TF-X, the Turkish Fighter Program, the Hürkuş, the
Turkish Basic Trainer Aircraft, the Hürjet, the Turkish Advanced
Jet Trainer Aircraft, T625 Utility Helicopter, the Turkish Heavy Duty
Attack Helicopter.

Through my work, I have gained valuable skills in programming,
software development, quality assurance, configuration
management, and problem-solving.

Experience

Turkish Aerospace
6 years 8 months

Lead Avionics Design & Process Quality Assurance Engineer
October 2022 - Present (1 year 6 months)

Quality assurance processes and procedures are developed and implemented in accordance with the DO-254/DO-178C standards for avionics hardware/software development in Hardware Process Assurance Plan (HPAP) and Software Quality Assurance Plan (SQAP).

Audits and assessments are conducted to evaluate compliance with DO-254/DO-178C requirements throughout the hardware/software development lifecycle.

Avionics hardware/software development plans, including PHAC/PSAC, are reviewed and approved to ensure alignment with DO-254/DO-178C objectives with the help of AMC 20-152A on Design Assurance Level A and B projects.

Hardware/software development processes that comply with DO-254/DO-178C requirements are established and maintained in collaboration with hardware/software engineers.

Verification and validation plans and procedures for avionics hardware/software are reviewed and approved to ensure thoroughness and compliance with DO-254/DO-178C objectives.

Hardware/software development activities are monitored and tracked to identify and address quality issues and non-conformances in a timely manner.

Design reviews and configuration audits are participated in to verify compliance with DO-254/DO-178C requirements and identify areas for improvement.

Guidance and support are provided to hardware/software engineers on interpreting and implementing DO-254/DO-178C requirements and best practices.

Documentation related to quality assurance activities, including audit reports, findings, and corrective actions, is prepared and maintained.

Hardware Configuration Management Engineer
February 2021 - October 2022 (1 year 9 months)
The hardware configuration management processes are enforced and sustained in alignment with the DO-254 standard.

Configuration baselines for hardware components are established and upheld, encompassing specifications, designs, and verification artifacts.

Configuration management plans and protocols are formulated and sustained to oversee the identification, control, and status accounting of hardware items.

Proper version control and traceability of hardware designs and documentation are guaranteed by hardware engineers.

Configuration audits and assessments are coordinated to evaluate adherence to DO-254 requirements and pinpoint areas for enhancement.

Configuration alterations and deviations, including updates to documentation and impact analysis, are overseen.

Meticulous documentation and archival of configuration management records and artifacts are ensured.

Assistance is provided during audits and certification processes, including the preparation of configuration management documentation and artifacts.

Interdisciplinary teams collaborate to resolve configuration-related issues promptly.

Avionics System Design Engineer
July 2019 - February 2021 (1 year 8 months)
System architecture is crafted and refined to fulfill specified requirements and limitations.

Comprehensive analyses of system requirements and limitations are performed to pinpoint optimal solutions.

Meticulous technical specifications and documentation for system designs are generated.

Close collaboration with hardware and software engineers is undertaken to seamlessly integrate components and subsystems into comprehensive systems.

System components' performance is analyzed and optimized to achieve performance objectives.

Adherence of system designs to industry standards, regulations, and best practices is ensured.

Design reviews are led and participated in to collect feedback and enhance system designs.

Technical guidance and mentoring are provided to junior engineers within the team.

Emerging technologies and industry trends are kept abreast of to stimulate innovation and continual enhancement.

Assistance is provided in the testing, validation, and resolution of issues in system designs across the development lifecycle.

Software Developer
August 2017 - July 2019 (2 years)

Custom solutions and integrations within the Teamcenter PLM platform are designed, developed, and implemented to meet business requirements.

Requirements are gathered, workflows are analyzed, and opportunities for process improvement are identified by collaborating with stakeholders.

Teamcenter PLM modules, workflows, and user interfaces are customized and configured to align with organizational needs.

Custom scripts, utilities, and extensions are developed and maintained to enhance the functionality of Teamcenter PLM.

Teamcenter PLM is integrated with other enterprise systems, such as CAD/CAM software, ERP systems, and manufacturing tools.

Unit testing, integration testing, and system testing are performed to ensure the reliability and performance of developed solutions.

Technical support and troubleshooting assistance for Teamcenter PLM-related issues are provided to end users.

The latest developments and best practices in Teamcenter PLM technology are stayed updated on and incorporated into our solutions.

Technical specifications, design documents, and user guides for developed solutions and integrations are documented.

Collaboration with cross-functional teams, including software developers, system administrators, and business analysts, is engaged in to deliver high-quality solutions on time and within budget.

Turkish Aerospace
Software Engineer Intern
May 2016 - August 2016 (4 months)

Turkish Aerospace
Software Engineer Intern
September 2015 - December 2015 (4 months)

AYESAS
Software Engineer Intern
May 2014 - August 2014 (4 months)

Education

TOBB University of Economics and Technology
Bachelor of Engineering (BE), Computer Engineering · (2011 - 2016)

Orta Doğu Teknik Üniversitesi / Middle East Technical University
Special Student, Software Management · (2017 - 2018)