Qualification Profile

Achieving excellence in Systems Engineering requires professional expertise.
Take advantage of my proven SE knowledge for the benefit of your organization.

Knowledge	Systems engineering
	Coach and Trainer
	Business process management
	System safety and reliability processes and analysis
	Requirements engineering and requirements management
	Project management
	Change management
	Configuration management
	Interface management
	Supplier selection and monitoring
Achievements	INCOSE Technical Director (2019–2021)
	Certified Systems Engineer (GfSE) ® Level A
	INCOSE ESEP
	PMI PMP
Industries	Aerospace
	Marine
	Renewable Energies
	Automotive
	Air Traffic Management

Projects (1) – Trainer Systems Engineering

Goal	Knowledge increase in systems engineering processes and methods
Tasks	Definition of learning objectives (e.g. INCOSE ASEP/CSEP exam preparation, SE-ZERT®) Establish training program Compilation of training material Maintaining training material
Methods	Systems engineering Training
Trainings in	Germany (automotive, aerospace, medical, maritime, renewable energies) Switzerland (passenger transportation, medical) France (aerospace) Spain (defense) USA (aerospace) India (renewable energies) UAE (defense)
Duration	14 years (ongoing)

Projects (2) – Standardization

Goal	Publication of international standards
Tasks	Participate in early phases of international standards to maximize impact Identify topics that are state of the practice to be included in international standards Involve other experts, as necessary Ensure alignment between national body (DIN) and ISO
Methods	Collaboration in international working groups and standardization committees Process modeling
Standards	ISO/IEC 15288:2023 Systems and software engineering – System life cycle processes (role: project editor) ISO/IEC/IEEE 24748–2:2024 Systems and software engineering — Life cycle management — Part 2: Guidelines for the application of ISO/IEC/IEEE 15288 (System life cycle processes) (role: project editor) ISO/IEC/IEEE 24748–1:2024 Systems and software engineering — Life cycle management — Part 1: Guidelines for life cycle management (role: co-editor)
Duration	4 years (ongoing)

Projects (3) – Consultant Systems Engineering

Goal	Definition and implementation of systems engineering processes
Tasks	Review of existing processes Assessment of as–is situation Definition of systems engineering processes compliant with ISO 15288:2015 Implementation of systems engineering processes Training of systems engineering processes and methods
Methods	Interviews Process modeling Training
Standards	ISO/IEC 15288:2015 Systems and software engineering – System life cycle processes ISO/IEC 26702 / IEEE 1220 Systems engineering – Application and management of the systems engineering process ANSI/EIA–632–1998 Processes for Engineering a System INCOSE Systems Engineering Handbook v4
Duration	3 years
Industry	Marine

Projects (4) – Project Lead for Translation of INCOSE SE Handbook v4

Goal	Translation of INCOSE Systems Engineering Handbook v4 into German
Tasks	Establish glossary to ensure consistent translation of technical terms Coordinate issues related to intellectual property Translate text and figures into German Review translation with team members (4 team members in total)
Methods	Translation Reviews
Standards	ISO/IEC 15288:2015 Systems and software engineering – System life cycle processes INCOSE Systems Engineering Handbook v4
Duration	1 year
Industry	General

Projects (5) – Requirements Engineering Coach

Goals	Coaching RE processes Support integration of system safety assessments in development process
Tasks	Identify needs and overcome barriers Agree aims and plan coaching activities Coach step-by-step Embed coached activities Facilitate management support Measure and publish progress
Methods	Requirements management Coaching Systems thinking
Duration	1 year
Industry	Automotive

Projects (6) – RAMS and Certification Specialist

Goal	Aircraft cabin reconfiguration
Tasks	Compilation of customer specification compliance matrix Compilation of safety deliverables (FHA, PSSA, SSA, FTA) required by customer or authorities Subject matter expert for safety and reliability Review of certification baseline
Methods	Requirements management Safety assessment
Standards	MIL–STD 882C and E System Safety Program Requirements SAE ARP 4754A Guidelines for Development of Civil Aircraft and Systems SAE ARP 4761 Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment RTCA DO–160 Environmental Conditions and Test Procedures for Airborne Equipment
Duration	1,5 years
Industry	Maintenance Repair Overhaul (MRO) Organization

Projects (7) – Safety and Certification Support

Goals	Establish certification baseline Establish safety documentation
Tasks	Prepare permit to fly application Define certification baseline Compilation of Functional Hazard Assessment (FHA) Compilation of Preliminary System Safety Assessment (PSSA)
Methods	Requirements management System safety (FHA, PSSA, SSA, FTA)
Standards	SAE ARP 4754A Guidelines for Development of Civil Aircraft and Systems SAE ARP 4761 Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment SAE AIR 6464 Aircraft Fuel Cell Safety Guidelines
Duration	1 year
Industry	Aircraft System Supplier

Projects (8) – Lead Systems Engineer

Goal	Support for different OEM programs
Tasks	Negotiation of OEM specification and Statement of Work Compilation of deliverables required by OEM Subject matter expert for safety / reliability
Methods	Requirements management System safety (FHA, PSSA, SSA, FTA)
Standards	MIL–STD 882C and E System Safety Program Requirements SAE ARP 4754A Guidelines for Development of Civil Aircraft and Systems SAE ARP 4761 Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment MIL–STD 785B Reliability Program for Systems and Equipment Development and Production MIL–STD 1629A Procedures for Performing a Failure Mode, Effects and Criticality Analysis SAE ARP 5580 Recommended Failure Modes and Effects Analysis (FMEA) for Non–Automobile Applications MIL–STD 470B Maintainability Program for Systems and Equipment MIL–HDBK 472 Maintainability Prediction
Duration	3,5 years
Industry	Aircraft System Supplier

Projects (9) – Consultant Update of Product Development Processes

Goal	Definition of product development processes after merging of two companies
Tasks	Review of existing development processes at both sites of the organization Identification of best–practices and compatibility of development processes Lead integrated team to define common product development processes
Methods	Interviews Process Modeling Leading intercultural teams
Standards	ISO/IEC 15288:2008 Systems and software engineering – System life cycle processes
Duration	9 months
Industry	Aircraft System Supplier

Projects (10) – Consultant Engineering Development Processes

Goal	Definition and implementation of Engineering Development Process
Tasks	Review of existing development processes Identification of gaps to achieve a to–be process landscape for engineering development processes Design of new engineering development processes (including system and lower levels)
Methods	Interviews Process Modeling
Standards	ISO/IEC 15288:2008 Systems and software engineering – System life cycle processes IEEE 1220 Systems and software engineering – System life cycle processes ANSI/EIA–632–1998 Processes for Engineering a System
Duration	18 months
Industry	Renewable Energies

Projects (11) – Consultant System Safety

Goal	Establish documentation for system safety assessment for VIP completion program
Tasks	Compilation of Functional Hazard Analysis (FHA) Compilation of Preliminary System Safety Assessment (PSSA) Compilation of System Safety Assessment (SSA)
Methods	Functional analysis Hazard analysis Fault Tree Analysis (FTA)
Standards	SAE ARP 4754A Guidelines for Development of Civil Aircraft and Systems SAE ARP 4761 Guidelines and Methods for Conducting the Safety Assessment Process on Civil Airborne Systems and Equipment
Duration	4 months
Industry	Maintenance Repair Overhaul (MRO) Organization

Projects (12) – ITIL Process Consultant

Goal	Definition and implementation of ITIL Processes
Tasks	Review of existing processes Identification of gaps to achieve a to–be process landscape Design of new processes compliant to ITIL
Methods	Interviews Process Modeling
Standards	ITIL V3
Duration	4 months
Industry	Information Technology

Projects (13) – Safety Specialist Development of Air Traffic Management System

Goal	Definition and validation of system safety assessment process
Tasks	System safety process definition for the development of three air traffic management systems Definition of purchaser's system safety strategy Input for purchaser's certification strategy Identification of applicable safety and certification standards
Standards	IEC 61508 Functional Safety of Electric/Electronic/Programmable Electronic Safety-Related Systems MIL–STD 882C System Safety Program Requirements DEF–STAN 00–56 Safety Management Requirements for Defence Systems ESARR 4 Risk Assessment and Mitigation in ATM
Duration	9 months
Industry	Air Traffic Management

Projects (14) – Consultant Quality Assurance, Configuration Management and SE

Goal	Introduction of WLAN/GSM in long–range aircraft
Tasks	Engineering lead for system integration team, configuration management and quality assurance (8 team members) Responsibility for systems engineering team budget, schedule and deliverables
Methods	Systems engineering Project management Risk management Configuration Management Recruitment
Standards	ISO/IEC 15288:2008 Systems and software engineering – System life cycle processes IEEE 1220 Systems and software engineering – System life cycle processes MIL–STD 973 Configuration Management MIL–HDBK 61B Configuration Management
Duration	8 months
Industry	Aircraft System Supplier

Projects (15) – Technical Project Coordinator Cabin Reconfiguration

Goal	Long range aircraft (McDonnell Douglas DC–10) conversion program – cabin systems on pallets
Tasks	Responsible for technical design deliverables Coordination of interfaces between engineering work packages Interface to certification authority
Methods	Requirements engineering and management Change management Configuration management Interface management Supplier selection Supplier monitoring
Duration	14 months
Industry	Maintenance Repair Overhaul (MRO) Organization

Projects (16) – Consultant Systems Engineering

Goal	Design and layout of military aircraft emergency oxygen system
Tasks	System layout taking into account military requirements Control of development and serial equipment Technical coordination of development team
Methods	Systems engineering according to airframe manufacturer processes (ABD0100 and ABD0200) System layout taking into account military requirements Safety and reliability analysis System integration Requirements management Configuration management Supplier selection Supplier monitoring according to airframe manufacturer processes (GRESS – General Requirements for Equipment and System Suppliers)
Duration	4,5 years
Industry	Airframe Manufacturer

Projects (17) – Consultant Definition of Requirements Management Processes

Goal	Implementation of DOORS tool at all sites of airframe manufacturer
Tasks	Definition of requirements engineering processes and methods as a member of Lead Implementation Team Distribution of information and decisions in system development teams Communication and alignment of system development teams' requirements end expectations
Methods	Requirements management Change management
Duration	6 months
Industry	Airframe Manufacturer