

DOSSIER

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An Extract of Relevant Experience:

since 1995	CONSULTANT OF RUAG AG (until 2007 HTS AG)
1995 - 1997	<u>ERA Manipulator Limb Subsystem (Phase B and C/D)</u> Configuration and Project Control, Systems Engineering, Electrical Engineering (incl. Harness)
1998 - 2001	<u>Rosetta High Gain Major Assembly (Phase C/D)</u> Harness, Electrical Engineering, Systems Engineering Support, FMECA, Configuration Control Documentation (Verification Control, Interface Control, Fracture Control) <u>MSL-VGS (Material Science Lab - Vacuum Gas System)</u> Harness, Electrical Engineering, Systems Engineering Support, FMECA, Reliability <u>Biopack (Phase B and C/D)</u> Systems Engineering Support, FMECA, Reliability <u>Pressure Transducer, Ultrasonic Flow Meter, Louver (Phase C/D)</u> FMECA, Life cycle Analysis, Reliability Analysis, Parts Application Analysis
2001 - 2003	<u>LDA (Large Deployable Reflector Antenna) (Phase C/D)</u> FMECA, Reliability Analysis and Electrical Design Description <u>EML Vacuum Gas Distribution System (Phase C/D)</u> Electrical Engineering, Life Cycle Analysis, Maintenance Plan <u>Cryosat MGSE (Phase C/D)</u> Operational and Maintenance Manuals of Mechanical Ground Support Equipment <u>Herschel SFW (Spatial Framework) (Phase C/D)</u> Verification Control Document, Maintenance and Inspection Plan
2003	<u>"In-Orbit Bonding" Study (Pre-Phase Study of DLR for deployable booms)</u> Mission Analysis Study
2004	<u>MSL-VGS (Phase C/D)</u> Flight Model Welding and Test Documentation
2004 - 2005	<u>Pre-Vacuum & Gas Distribution Module of the MSL-EML</u> FMECA, Maintenance Plan, Verification Control Document
2004 - 2005	<u>FASES (Fundamental and Applied Studies of Emulsion Stability) experiment container</u> FMECA, Maintenance Plan, Verification Control Document

- 2005 GRADFLEX payload (two fluid experiments for the PHOTON M3 capsule)
FMECA
- 2005 MIRI (Mid Infrared Instrument of the James Web Space telescope Phase C/D)
FMECA of MIRI Contamination Control Cover (MIRI CCC) mechanism
- 2006 GRADFLEX payload
Verification Control Document
- 2006 ULMAAS project
Test plan for an ultra light mechanism for one-time deployment of S/C antennas or other appendages.
- 2007 FASES experiment container (Phase C/D)
Verification Control Document
- 2007 ERA EVA Handrails
Acceptance Data Package Document for the refurbished Handrails delivered to ESA
- 2008 GAIA (Global Astronomic Interferometer for Astrophysics)
Bonding and Grounding Test Procedure for Qualification Model of the DSA frames
- 2008 ARES (new generation of Air Revitalisation System Project)
Electrical and EMC analysis of a new Carbon Dioxide Concentration Assembly Single Adsorber Bed design for use in life support systems).
- since 2001** **SIEMENS L & A (former SIEMENS DEMATIC)**
Automatic Carrier System for an Australian letter sorting machine project.
Exception handling concept and the interfacing subsystems for an implementation into the control software
- 2004 SIEMENS L & A PA IN ARLINGTON, TEXAS, USA
Exception handling requirements and documentation for a US postal project
- 2005 SIEMENS L & A PA in Konstanz,
Development of an exception handling database in MS ACCESS
- 2005 SIEMENS L & A PA in Konstanz,
Risk analysis study, Failure Modes Effects Analysis, development of a parser browser software for the analysis of Log file data; development of a Maintenance Concept for an automatic system and safety concept for a sensor.
- 2006 SIEMENS AL I&S, DFW IRVING, TEXAS, USA
Failure Modes Effects Analysis for luggage transport systems (consultation, analysis and support)
- 2006/2007 SIEMENS I&S PA in Konstanz,
Failure Modes Effects Analysis and Reliability Prediction of relevant modules for a sorting system.
Concept development for a autonomous test letter probe for the detection of carbon transfer at letter pages during the sorting process in letter sorting systems
- 2007 SIEMENS I&S PA in Konstanz (for Siemens Arlington, TEXAS, USA),
Supporting Failure Modes Effects Analysis and Reliability Prediction of a subsystem.
- 2008/2009 SIEMENS I MO IL in Offenbach, Reliability Predictions of belt and tray conveyor modules for airport baggage systems

1994 OERLIKON-CONTRAVES AG

Systems Engineering (structure and mechanism) & Subcontractor Management at
ATV (automated transfer vehicle) (Phase B)

1987 - 1993 DORNIER GMBH

Systems engineering and Study Management for future projects for ESA and DLR studies,

1992 - 1993 Member of the EVA Project Team for an European space suit development

1991 EXPRESS Re-Entry Capsule, LASSO (tethered satellite study)

1990 DORIS Study, "Regenerative Resource Management" -Study

1987 - 1989 Several studies in the frame of HERMES, COLUMBUS and Payloads for the Space Station
(incl. earth observation payloads), TOPAS and "Raumkurier" – Reentry Capsule