



Heidemarie Vidos

Systems Engineer & Technical Information Architect

Systems Engineer and Information Architect bridging the gap between mechanical engineering, software, and strict compliance in highly regulated industries. Trained in Contributor Project Management, I streamline complex documentation pipelines and ensure bulletproof audit readiness. I bring structure and cross-functional clarity to high-tech projects.

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📍 Austria, Vienna, Remote / International

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WORK EXPERIENCE

● Systems Engineering & Info Architect | MedTech & CleanTech Expert

International Company in the Health/MedTech Sector (Germany)

Advanced Configuration & Enterprise Version Control: Implemented and optimized dynamic/snapshot views within complex enterprise environments utilizing IBM Rational ClearCase and Azure DevOps/TFS. Automated secure remote deployment processes and source control workflows via custom Windows Batch and DOS scripts.

02.2012 | laufend

Key Responsibilities

- **Configuration Management:** Managing dynamic/snapshot views in IBM ClearCase & Azure DevOps/TFS. Automating remote deployments and source control workflows via custom build scripts (Windows Batch/DOS).
- **Data & Format Engineering:** Processing and validating specialized device-control configurations, system metadata, 3D geometry parameters, and image-processing file layouts.
- **UI Localization & I18n:** Handling localization pipelines via industry-standard UI translation suites (QT Linguist / .ts formats) and resource files (.resx) for multilingual deployment.
- **Defect Tracking & Traceability:** Full-lifecycle defect management (TFS/Azure DevOps). Ensuring audit readiness by linking source changesets directly to regulatory defect tickets and maintaining delivery tables.
- **SAP Release Management:** Authoring compliant release notes. Directing document control in SAP (managing doc types, versioning, attachments, PDF images, and digital signatures via WS-applications).

● Technical Project Manager / Project Lead

Rena GmbH (Germany)

Promotion to full technical project management and leadership for the 30m+ industrial automation line after successful execution of the information architecture framework. Full execution, budget, and commercial responsibility for the system with a total asset value of €6.5M, custom-engineered for an international tier-1 client (Yingli Malaysia).

01.2011 - 09.2012

Key Responsibilities

- **Project Leadership & Value Management:** Directing all project phases from engineering alignment to final delivery of the €6.5M system utilizing commercial expertise as a **Technical Business Administrator ("Technischer Betriebswirt")**.
- **International Client Interface:** Acting as the primary technical and commercial contact for the client in Malaysia, managing milestones and project acceptance.
- **Cross-Functional Team Coordination:** Leading and synchronizing multi-disciplinary teams across mechanical engineering, chemical process design, and technical writing.
- **Risk & Compliance Control:** Monitoring project risks and supervising compliance with strict international industrial regulations.



WORK EXPERIENCE

• Technical Information Architect & Documentation Specialist

Rena GmbH (Germany)

Strategic structuring and development of high-end technical documentation for highly complex industrial process equipment within the photovoltaic and semiconductor manufacturing environment. Focused on a massive, automated 30m+ chemical etching system custom-engineered for international cleanroom deployment (Yingli Malaysia).

02.2010 - 12.2010

Key Responsibilities

- **Large-Scale Plant Documentation:** Authoring and structuring comprehensive technical documentation and system manuals for 30-meter-long industrial chemical lines.
- **Cleanroom Environment Expertise:** Integrating specific regulatory, safety, and operational cleanroom requirements into technical manuals and safety instructions.
- **Technical Illustration & CAD-Data:** Creating high-precision, vector-based technical illustrations using CorelDRAW for advanced user guidance and system-critical documentation.
- **Source Material Analysis:** Standardized processing and evaluation of engineering drawings, technical source materials, and system-related content.
- **Terminology Standardization:** Establishing and maintaining consistent naming conventions and document structures in close collaboration with the core engineering teams.

• Systems Documentation Expert / Motorsport Information Architect

KTM Sportmotorcycle AG (Austria)

End-to-end conceptual design and creation of the comprehensive technical workshop and owner manual for the high-performance KTM 125cc Red Bull Rookies Cup racing motorcycle. Specialized in documenting highly complex mechanical racing components within a high-speed motorsport engineering environment.

02.2008 - 11.2009

Key Responsibilities

- **Full-Scale Racing Manual Architecture:** Independent structuring and authoring of the complete technical documentation for the factory-spec Rookies Cup 125cc racing bike.
- **High-End Powertrain Documentation:** Detailed technical breakdown and documentation of safety-critical subsystems, including precision racing gearbox mechanics and high-performance carburetor setups.
- **Engineering Data Transformation:** Analyzing and translating highly complex R&D blueprints, motorsport telemetry contexts, and developer specifications into clear, flawless technical guidelines.
- **Cross-Functional Alignment:** Working in tight coordination with trackside engineers, R&D racing divisions, and quality managers to guarantee absolute accuracy and traceability.
- **Precision Technical Illustration:** Creating high-precision, vector-based technical schematics and exploded-view illustrations for complex mechanical assembly steps.

• Aviation Integration & Compliance Specialist

HELOG Lufttransport KG (Austria)

Hands-on technical integration and compliance engineering for a highly specialized, custom airborne scanning and terrain-mapping system retrofitted into the interior of Airbus Super Puma helicopters. Development of safety-critical maintenance architectures and technical documentation for mission-critical systems deployed globally, including United Nations (UN) missions.

03.2006 - 11.2007

Key Responsibilities

- **Hands-on Technical Integration:** Actively supporting the physical interior installation and mechanical/electrical integration of the custom airborne scanning system within the helicopter cabin.
- **Maintenance Logging & Record Keeping:** Leading the systematic, audit-proof logging and written execution of all aircraft maintenance, servicing, and repair records in strict compliance with aviation authorities.
- **Specialized Retrofit Documentation:** Authoring and structuring comprehensive technical manuals and structural integration descriptions for the custom airborne measurement and ground-scanning hardware.
- **Aviation Compliance & Safety:** Ensuring absolute alignment with ultra-strict aviation-specific regulatory bodies, rigorous traceability requirements, and flight safety standards for custom aircraft modifications.
- **Cross-Functional Interface:** Acting as a vital link between hangar mechanics, aviation engineering teams, and flight operations to translate complex mechanical setups into precise documentation.



WORK EXPERIENCE

Technical Operations & Field Service Specialist

ENSECO GmbH (Germany)

Technical and commercial operations management for network-wide agrometeorological measurement stations operated on behalf of the Bavarian State Ministry of Food, Agriculture and Forestry. Full responsibility for field deployment, sensor integration, data logging, and long-term environmental data analytics.

06.1999 - 08.2002

Key Responsibilities

- **Sensor Integration & Station Deployment:** Full-scale assembly, installation, and commissioning of specialized environmental stations, including integration of multi-level soil/air temperature sensors (-30cm, +20cm, +2m), wind speed anemometers, precipitation gauges, and leaf wetness sensors.
- **Data Logging & Analytics:** Configuring industrial dataloggers, monitoring data transmission pipelines, and generating analytical charts, diagrams, and long-term data consistency reviews.
- **Lifecycle Maintenance & Repair:** Executing preventative maintenance, calibration of sensitive meteorological instruments, field repairs, and occasional full decommissioning/dismantling of measurement sites.
- **Root-Cause Fault Analysis:** Conducting advanced technical fault analysis and long-term sensor testing to ensure absolute data accuracy for government-backed operations.
- **Procurement & Inventory Management:** Independent purchasing, material planning, and end-to-end stock and inventory control for all technical field components.



EDUCATION

Master Professional (CCI) of Technical Management (3 Years)

Chamber of Commerce and Industry (CCI) Munich (Germany)

2008

Web Development & Tech. Training (1 Year)

CT Computer Training, Munich (Germany)

2002

Communication Electronics Tech (3.5 Years Degree)

Siemens AG (Germany)

1992 - 1995



CERTIFICATES

FMEA & Risk Assessment (ISO 31000/Industry)

Professional Training (Germany)

2011

Project Management Certification (IPMA Std.)

SystemCERT / BFI - Project Management (Austria)

2009



TECHNICAL SKILLS

System, Tools & Infrastructure

Azure DevOps, SAP PLM, IBM Rational ClearCase, Visual Studio, QT Linguist



TECHNICAL SKILLS

Formats, Frameworks & Scripting

Windows Batch / DOS Scripting, UI Localization (I18n / L10n), Data Structure Processing (.resx / .ts), 3D Geometry Data Validation, XML / XCU Configuration

Web Technology & Data Layouts

XML / XCU Configuration, HTML5 / CSS

Scripting & Code Literacy

Python, Java, PHP, Perl, ASP

Technical Illustration & Vector Graphics

CorelDRAW, CAD Model Literacy (Reading & Analyzing), Exploded View Drawings & Schematics, Vector Graphics Processing, Technical Illustration & Layout, Visual Information Architecture

Project Methodologies & Compliance

Contributor Project Management, Cross-Functional Release Coordination, Configuration Management, End-to-End Traceability, Audit Readiness, Technical Documentation Pipelines



TRAININGS & PROFESSIONAL DEVELOPMENT

Technical Documentation (SNV Seminar), SNV Swiss Association for Standardization 03/2009

Basic Seminar on Machining Technology, WZL of RWTH Aachen University 10/2007

Advanced English & Technical Language Training, bfi Salzburg (Vocational Training Institute) 08/2007

WIFI Cambridge Business English Preliminary, WIFI Salzburg 02/2007

Project Management with Coaching and Self-Directed Learning, bfi Salzburg (Vocational Training Institute) 09/2006

Seminar Series LAN: Install- Measure - Certify High-Speed LANs, Wavetek GmbH 06/1998



LANGUAGES

English

Full professional proficiency

German

Native proficiency



SOFT SKILLS

Structured & Analytical Thinking

Organisational & Planning Talents

Technical Problem-Solving

Detail-Oriented / Attention to Detail



DIGITAL FOOTPRINT & PORTFOLIO

Corporate Website: hid-digital.com

Insights into my business operations, services, and corporate projects.

Project Portfolio: <https://heidemarievidos.journoportfolio.com/>

A curated collection of my corporate portfolio, technical documentation, and relevant work samples.