



Noël Joan

Senior Engineering Data &

Digitalization Specialist

CONTACT

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LANGUAGES

- ▶ French – Native speaker
- ▶ German – Fluent
- ▶ English – Professional
- ▶ Spanish – Professional

CORE COMPETENCIES

- ▶ SAP R/3 (MM, PP, QM, FI, CO), SQVI
- ▶ Master Data Management
- ▶ Technical Classification
- ▶ DIN / ISO / EN Standards
- ▶ Data Migration & Cleansing
- ▶ Customizing
- ▶ AI / ML: Python, TensorFlow
- ▶ Claude Code
- ▶ VBA / SQL / MS Access / MySQL
- ▶ Neo4j / XDev / SAP GUI Scripting
- ▶ CAD: Creo / Pro/E / AutoCAD
- ▶ MatDB / Genesis / FEMFAT / FKM
- ▶ HTML / PHP / JavaScript / XML
- ▶ Technical Documentation
- ▶ Process Automation
- ▶ Technical Training & Translation

CERTIFICATIONS

- ▶ Certified Industrial Master – 1992
- ▶ Application Programmer – 1994
- ▶ DIN Standardization Expert – 2013
- ▶ CAWeb Master – 2020

INTERESTS

- ✈ Private Pilot (PPL)
- 🎸 Guitar & Bass

PROFESSIONAL PROFILE

Senior Engineering Data & Digitalization Specialist with over 35 years of experience in industrial environments, including more than 15 years in engineering, materials, and SAP-related development areas. Specialized in SAP engineering master data, technical classification, materials data management, CAE/FEM-supported materials modeling, as well as the digitalization and automation of technical engineering processes.

Extensive expertise in the development and integration of intelligent engineering data and classification systems, as well as automated data processing solutions — including the classification of 2.5 million SAP materials and the cleansing of 15 million product attributes according to DIN 32705 and DIN 4000. Proven track record in harmonizing and standardizing complex technical data landscapes in international industrial companies.

Profound knowledge of technical standards and guidelines (DIN/ISO/EN/FKM), structural durability, materials engineering, as well as the development of mathematically interpolated material models and FEMFAT/FKM-based material parameters for computer-aided strength and fatigue life analyses.

Combines deep mechanical engineering, materials, and standardization knowledge with software development, database architecture, AI/ML-supported automation, and the integration of SAP, CAD, CAE, and engineering systems.

Certified DIN Standardization Expert | Multilingual: German, French, English, Spanish

PROFESSIONAL EXPERIENCE

MAN Energy Solutions SE | Augsburg, Germany | Hybrid | 2008 – Oct. 2025

Senior Technical Specialist – SAP Master Data & Standards

- **SAP Master Data & Classification:** Implementation of a DIN 32705 classification system for 1.3 million SAP material master records, as well as cleansing and enrichment of approx. 15 million product attributes (DIN 4000); development of an automated classification solution for 2.5 million SAP materials using proprietary algorithms, SQL, Python/AI, and SAP GUI scripting; preparation of CSV mapping files, data migrations, and statistical evaluations using MS Access, MySQL, and Excel.
- **SAP Automation & GUI Scripting:** Development of VBScript-based SAP automation tools for parallel mass data exports (15 million records), automatic mass creation and maintenance of material master data, as well as a data-driven cost management tool for analyzing order costs, trends, and statistics with automated report generation.
- **AI, Automation, Software, Database & Web Development:** Development of deep learning solutions using Python, OpenCV, TensorFlow, and PyTorch, e.g., for automated logo recognition in technical drawings. Creation of websites, 3D CAD models, and Python applications with AI-assisted development (Claude Code). Conception and development of customized desktop and web applications using VBA, SQL, PHP, MySQL, JavaScript, and HTML. Development and customizing of the materials platform MatDB with interfaces to ANSYS, Rifest, FEMFat, FKM, and Creo. Automated drawing release from Creo to SAP using VBS and Autolt, as well as administration of Perinorm and Documentum (R&D reports). Preparation of technical specifications and requirements documents.
- **Materials Expertise & Standards Consulting:** Creation and maintenance of approx. 2,000 material data sheets with chemical, mechanical, physical, and fatigue properties, research of international alternative materials ("List of Differences"), and analysis of Supplier Deviation Requests (SDR). Creation and parameterization of FEMFAT material models for structural durability and fatigue analyses according to the FKM guideline, as well as consulting on standards compliance (DIN, EN, ISO, FKM) and material changes in accordance with the REACH regulation.
- **3D CAD, Standard Parts Management & Documentation:** Creation of 3D CAD models using Creo and Partsolutions, as well as release of standard part variants; management of technical standards documentation using Perinorm and DIS according to DIN 820; creation of factory standards in German, English, and French.
- **Training, Documentation & Project Management:** Conducting technical training sessions and creating multilingual training materials, presentations, and user manuals for SAP, Perinorm, MatDB, FIZ Technik, Cadenas, and Pro/E; creation of flowcharts with Visio and project planning with MS Project.
- **Terminology Management:** Leading the implementation of the terminology projects SeMANtics and Quickterm, as well as translating approx. 1,200 SAP class names and 8,000 subclass names (DE/EN/FR/ES).

MAN Diesel & Turbo SE | Augsburg, Germany | 2002 – 2008

IT Administration, Information Management & Database Support

- **IT Administration & System Operations:** Support of standards, WIAM, and patentGate servers including update services; conception of network and system topologies for new company foundations; adaptation and implementation of SAP applications and patent monitoring systems.
- **Database & Web Development:** Development and maintenance of various databases and web applications; creation of a web-based standards application and a materials database; migration of IMS data to Lotus Notes and maintenance of the company and corporate intranet.
- **SAP & Commercial Processes:** SAP billing (debits, credits, invoices, overhead proofs); automation of recurring invoicing processes using Excel macros; creation and analysis of UPL/cost allocation tables, as well as calculation of invoice attachments, revenues, and external purchases.
- **Research & Information Management:** Patent, trademark, and utility model searches (national & international); standards research (DIN, ISO, IEC, NATO, IHS), as well as obtaining and analyzing bank and credit reports.
- **Documentation & Publications:** Management of technical documentations and R&D reports (Documentum, Lotus Notes); creation of material data sheets, technical specifications/requirements documents, and user manuals/training materials (DE/EN); co-author of technical publications and DIN Pocket editions on metallic materials and American steel grades.x
- **Reporting & Analysis:** Creation of statistics, reports, and market analyses, as well as analysis of database access, usage, and inventory data.
- **Project Work & Knowledge Transfer:** Project planning and modeling; leading workshops, specialist meetings, and user trainings, as well as participating in technical conferences and user forums.

MAN Technologie AG | Augsburg, Germany | 1987 – 2002

T Support / Data Organization Specialist

- **System & Application Development:** Setup and administration of a Linux intranet portal (HTML, PHP, JavaScript, Perl); development of user, ticketing, and migration tools (including Banyan VINES to Active Directory/MS Exchange) in the 4GL language Final; development of an SAP web application for further training measures.
- **Data Center Operations & Documentation:** Operation and management of heterogeneous data center systems (IBM, VAX, HP, SAP R/3), as well as creation of user manuals for internal applications.

EDUCATION & CERTIFICATIONS

- **Certified Industrial Master – Mechanical Engineering** | IHK Augsburg, 1992
- **Certified Application Programmer (IHK)** | IHK Augsburg, 1994
- **Certified DIN Standardization Expert** | DIN German Institute for Standardization, Berlin, 2013
- **Web Design & Administration (CAWeb Master)** | University of Strasbourg, France, 2020
- **XDEV / Java / Software Development Training** | Professional Continuing Education

TECHNICAL SKILLS

ERP / Database: SAP R/3 (MM, PP, QM, FI, CO), MS Access, MySQL, phpMyAdmin, Neo4j, XDev, MS-SQL, Oracle

KI / ML: Python, TensorFlow, Pillow, PyTorch, OpenCV, Scikit-learn, Deep Learning, Contour & Image Recognition

CAD / Engineering: Creo, Pro/E, AutoCAD Mechanical, Mathcad 15, Partsolutions

Standards: Perinorm, DIS, DIN 820 / DIN 32705 / DIN 4000 / ISO 2768 / ISO 3601, EU- Machinery Directive 2006/42/EG

Materials Science: MatDB, Genesis (IMA), Total Materia, Stahlschlüssel, ANSYS, FEMFAT, FKM, WIAM

Programming: C++, SQVI, VBA, Java, VBScript, Python, JavaScript, SAP GUI Scripting, AutoIt, PHP, HTML, Perl, XML, Turbo Pascal, CNC

Office / Tools: MS Office, MS Visio, MS Project, MS SharePoint, Documentum

Operating Systems: Windows Server, Unix, Linux, macOS, HP-UX