

Developer CV

Frank Hentzschel | Software and Database Developer

Development, takeover and modernisation of business applications, databases and reporting solutions. Extensive hands-on experience with established systems, SQL databases, Office automation and user-focused software development.

Core skills Access/VBA · Excel/VBA · SQL Server/T-SQL · Oracle/PL/SQL · PostgreSQL · Data integration · Performance tuning · Legacy modernisation

Additional technologies C#/.NET · Delphi · Power BI · Power Query · SSRS/SSIS · Informix · ETL · Reporting · Interfaces

Working arrangements Primarily remote; on-site meetings by agreement across Germany, Austria and Switzerland.

Contact Frank.Hentzschel@office-dev.de | **Office** +49 8641 59 11 626 | **Mobile** +49 170 48 26 169

Online www.office-dev.de | linkedin.com/in/frank-hentzschel

Selected Project Results

- E.ON: Reduced recurring manual data preparation from approximately two days to around two minutes per month.
- E.ON: Optimised an Access data reconciliation process from an original 12–16 hours to approximately ten minutes for the actual matching step.
- Bavarian judiciary: Reduced the effort caused by errors from one to two days to less than 30 minutes.
- Bank in Bavaria: Accelerated invoicing in an Access/VBA application for cash and valuables logistics from six hours or more to under one hour by replacing Word automation with native Access reports.
- LDBV: Migrated an Access database to SQL Server, adapted the application and successfully put the migrated solution into production.

Project History

Universities in Baden-Württemberg – Informix Migration

since 04/2026

Technical migration of extensive datasets, including BLOBs, from Informix to PostgreSQL within a three-person team. Executed migrations using supplied scripts and tools; reconciled data volumes, record counts and selected content. Tested applications after switching ODBC connections to PostgreSQL.

Result: Numerous databases already migrated and tested; the overall programme covers heterogeneous data from 38 university locations.

Technologies: Informix, PostgreSQL, SQL, ODBC, Linux, Data validation

Retail – Development and Support of Custom Access Applications

since 09/2023

Development, support and continuous enhancement of custom Access applications for a mobile-phone retailer with two branches and seven employees. Analysis of existing applications, implementation of new requirements, VBA programming, bug fixing and automation of operational processes. Integration of Outlook features and development of an SMS reminder function; support for ongoing production operations.

Result: Ongoing enhancement to integrate electronic invoicing into an existing application.

Technologies: Microsoft Access, VBA, SQL, Outlook, Office automation, E-invoicing

Industry Association – Modernisation of an Access Invoicing Application

since 05/2023

Maintenance and enhancement of an existing Access/VBA application for the administration and invoicing of an industry association. Adaptation of invoicing processes and document generation, automation of recurring tasks, and integration of Word and PDF documents.

Result: Ongoing development to add ZUGFeRD electronic invoicing without replacing the existing application in its entirety.

Technologies: Microsoft Access, VBA, Microsoft Word, PDF, ZUGFeRD

Zurich – Call Centre and CRM Applications

since 06/2021

Adaptation and occasional support of a Delphi application showing breaks and availability of call-centre staff. Development of two Access/VBA CRM applications with MySQL backends for importing customer lists, recording contact attempts, outcomes and insurance products, and generating management reports.

Result: One CRM application and the Delphi solution continue to receive maintenance as required.

Technologies: Delphi, Access, VBA, MySQL, Excel

IT Service Provider – Staff and Capacity Planning with SAP BW

08/2025–05/2026

Development of an Excel/VBA prototype for monthly staff and capacity planning based on business specifications and regular consultation. Planning by employee, team, organisational unit and activity, using convenient form-based and worksheet input. Import of SAP actuals via an add-in, aggregation, consideration of absences and preparation of a return table for SAP BW.

Result: Requirements implemented technically; production use by the client has not been confirmed.

Technologies: Excel, VBA, SAP BW, SAP Analysis for Office

Finance Company – Backend and Database Development

06/2025–01/2026

Development and adaptation of C#/.NET API interfaces and SQL Server stored procedures for an existing database structure. Optimisation of data access through suitable indexes and revised procedures. Also developed an Excel/VBA KPI dashboard prototype.

Technologies: C#/.NET, SQL Server, T-SQL, Stored Procedures, Excel, VBA

Energy Trading – Oracle and PL/SQL Development

04/2025–06/2025

Creation and adaptation of SQL queries and Oracle stored procedures in an energy-trading environment, including fault analysis and performance tuning.

Technologies: Oracle, PL/SQL, SQL

VHV – CMDB Data Quality and Flexible Reporting

11/2024–03/2025

Development of SQL queries and views; analysis, reconciliation and cleansing of CMDB data and preparation for a service transition. Developed a configurable Excel/VBA reporting tool with selectable report, parameters and database instance; results were exported to new worksheets. Adapted and corrected existing Power BI reports.

Result: Additional reports could be incorporated by configuring new SQL queries without changing VBA code.

Technologies: SQL Server, T-SQL, Excel, VBA, Power BI

Cybersecurity Distributor – Commercial Office Applications

11/2023–05/2024

Bug fixing, enhancement and optimisation of existing Excel/VBA applications supporting business processes, including equipment loans, order handling and sales. Documentation of relevant workflows.

Technologies: Excel, VBA

Vehicle Development – Support of a Long-Established Test Logging Application

11/2022–11/2024

Took over and independently maintained a long-established Access/VBA application for logging and analysing vehicle and component tests. Reverse engineering, bug fixing, change requests and support of production operations until replacement by a cloud solution. Also maintained C#/.NET reporting components.

Result: Accelerated slow Oracle data access in Access forms and optimised Excel exports.

Technologies: Access, VBA, Oracle, ODBC, SQL Server, T-SQL, PL/SQL, C#/.NET

Bavarian Judiciary – Database Optimisation and Office Automation

01/2022–07/2023

Analysed and optimised SQL Server stored procedures; improved an Access application and supported Power BI reports and Excel/Power Query solutions. Developed Excel-based solutions for collaborative data maintenance via SharePoint.

Result: Reduced the work involved in an error-prone consultant invoicing process from approximately one to two days to less than 30 minutes.

Technologies: SQL Server, T-SQL, Access, VBA, Excel, Power Query, Power BI, SharePoint

Bank in Bavaria – Cash and Valuables Logistics and Performance Tuning

06/2021–10/2022

Took over the support and enhancement of an existing Access/VBA database application for cash and valuables logistics following the departure of the previous developer. Analysis, bug fixing, change requests and optimisation of business processes. Replaced Microsoft Word-based invoice generation with native Access reports. Also certified and digitally signed Access and Excel/VBA macros for production use. Part-time remote engagement through a recruitment intermediary.

Result: Reduced invoice generation time from approximately six hours or longer to under one hour (more than 83%).

Technologies: Microsoft Access, VBA, Microsoft Word, Microsoft Excel, SQL, SQL Server, Access Reports, Terminal Server

Electrical Engineering Service Provider – Application Maintenance

12/2020–03/2021

Maintained and enhanced an existing database application, analysed faults and implemented client-specific changes. The precise functional scope can no longer be reconstructed with confidence.

Technologies: Access, VBA, SQL Server

Roche – Office Automation and Data Reconciliation

11/2020–12/2020

Adapted an existing Excel/VBA solution with import and export features, particularly adding address information and data reconciliation.

Technologies: Excel, VBA

MARS Wrigley – Database and Reporting Support

03/2020–09/2020

Supported existing applications through bug fixing, modifications, enhancement and reporting.

Technologies: Access, Excel, SQL, Reporting

Software Company in Rosenheim – CRM and Dynamics Integration

03/2019–12/2021

Enhanced commercial applications using Delphi and PostgreSQL, particularly in the CRM area. Imported Dynamics 365 data via a web interface into the application and PostgreSQL database; developed plugins/extensions using C# and JavaScript, along with unit tests. Used Docker containers.

Technologies: Delphi, PostgreSQL, Dynamics 365, C#, JavaScript, Docker, Unit tests

HOB Networking – Application Support and Reporting

03/2019–09/2019

Provided support and database queries for existing applications; produced custom SQL and Excel reports. Read and traced existing COBOL code to analyse application workflows.

Technologies: DB2, SQL, Excel, COBOL code analysis

Siemens – Software Development for Power Plants and Logistics

08/2018–02/2019

Enhanced existing software for power-plant systems and logistics, primarily using C#/.NET, database connectivity and SQL queries.

Technologies: C#/.NET, SQL, Oracle

TPG / BSH – Project Planning and Controlling

02/2018–09/2018

Enhanced existing Excel/VBA tools and developed a new Access/VBA application for project planning and controlling. Integrated project data with Microsoft Project and SQL Server.

Technologies: Excel, Access, VBA, Microsoft Project, SQL Server

Allianz – Incident Recording and Central Reporting

09/2017–01/2018; follow-up engagement 12/2020

Developed and subsequently adapted an Excel/VBA solution for decentralised incident recording. Generated and transmitted records via Outlook, imported them centrally into an Access database and analysed them using pivot tables, charts and reports.

Technologies: Excel, VBA, Access, Outlook, SQL

Textile Retail – Data Warehouse and ETL

09/2017–01/2018

Developed ETL processes and stored procedures to import and prepare data for a data warehouse. Gained hands-on experience with Integration Services and Analysis Services.

Technologies: SQL Server, T-SQL, Stored Procedures, ETL, SSIS, SSAS

Allianz Worldwide Partners – Data Administration and Reporting

06/2017–08/2017

Developed an Access application to manage data centrally and transfer it to a relational database; created reports using Access, Excel and SQL.

Technologies: Access, VBA, Excel, SQL Server

IT Service Provider – Applications for General and Members' Meetings

03/2017–06/2017

Contributed to existing .NET applications, adapted functions and analysed various database connections.

Technologies: C#/.NET, SQL Server, WinForms, WPF, WCF, LINQ

Roche – Role Mapping and Fact Sheet Generation

03/2017–04/2017

Developed two Office solutions: automated comparison of SAP-report employee data with Excel mapping tables, including change detection; and generation of information sheets for the pharmaceutical field sales team. Also signed macros.

Technologies: Excel, Access, VBA, SQL

Bavarian Police – Emergency Dispatch System

06/2016–01/2017

Provided technical and user support for a graphical emergency dispatch system. Analysed application and database issues and developed smaller utilities using Visual Studio.

Technologies: Visual Studio, SQL Server, Oracle, SQL

Airbus – Excel-Based Capacity Planning

02/2016–12/2016

Enhanced and supported an Excel/VBA application for assigning employees to projects and planning staff capacity. Accounted for the technical limitations of a SharePoint-distributed solution without a database backend.

Technologies: Excel, VBA, SharePoint

LDBV – Migration of an Access Application to SQL Server

02/2016–07/2016

Migrated data and tables from an existing Access application to SQL Server largely independently and adapted VBA code and queries. Retained efficient Access queries while moving time-critical processing to SQL Server queries and stored procedures.

Result: Migration completed; the converted application was subsequently used in production.

Technologies: Access, VBA, SQL Server, T-SQL, Stored Procedures

Munich Property Developer – Property and Project Administration

11/2015–12/2016

Took over technical development of a partially completed Access application for property projects, plots and company data according to business requirements. Developed functions and reports; automated contract generation formed part of the intended functionality.

Technologies: Access, VBA, Excel, SQL

TÜV Rheinland – Office Development

11/2015–01/2016

Supported the development and adaptation of custom Excel/VBA and Access/VBA applications.

Technologies: Excel, Access, VBA

Tourism – Maintenance of Client-Specific Access Applications

10/2015–04/2016

Maintained and enhanced an existing Access/VBA application with numerous client-specific variants. Bug fixing, change requests and new features.

Technologies: Access, VBA, SQL Server, SQL

MT Aerospace – Occupational Health Administration Application

02/2015–03/2015

Designed and developed a database-backed application for planning and managing occupational medical examinations, including database design and C#/.NET programming.

Technologies: C#/.NET, SQL Server, SQL, LDAP

E.ON Deutschland – Administration of Terms and Conditions

03/2014–07/2014

Maintained and extended an existing Access application for administering terms and conditions and supporting reporting and data processing.

Technologies: Access, VBA, SQL

Energy Trading in Leipzig and Frankfurt – Modernisation of an Asset Management Application

02/2013–04/2016

Developed custom Office and database applications. Largely independently replaced an Excel-based power-plant asset management tool, whose calculations had become increasingly slow, with an Access/SQL Server database solution. Also provided reporting and ongoing application support.

Result: Centralised data storage, improved data quality, reduced error risk and faster calculations.

Technologies: Access, Excel, VBA, SQL Server, Oracle, C#/.NET, SSRS, SSIS

PLAN.NET / Serviceplan – Online Advertising Campaign Planning

01/2012–05/2014

Led the technical work and played a principal development role in an Access/SQL Server application replacing an Excel/VBA planning tool. Database modelling, user interfaces, integration of other systems, CSV output for invoicing and management reporting; coaching and code reviews with another developer. Introduced SVN and development tools.

Result: Technically implemented; not put into production following a later organisational decision.

Technologies: Access, Excel, VBA, SQL Server, SVN, ODBC, CSV

SECARON / BMW – Security-Related Access Application

01/2012–05/2012

Enhanced an existing Access application and implemented client-specific change requests, including adaptation to a new Office version.

Result: All commissioned changes delivered within the agreed timeframe.

Technologies: Access, VBA, Oracle, SQL

Siemens AG – Group Planning

08/2011–09/2015

Developed and supported Excel/VBA and Access solutions for group planning over several years. Built data-entry templates and automated the processing of planning data, including conversion to specially structured CSV files for SAP import. Also produced reports and modifications.

Technologies: Excel, Access, VBA, SQL, CSV, SAP data import

Syneco Trading – Applications for Energy Trading

10/2010–06/2011

Analysed, tested and enhanced Excel/VBA and Access/VBA applications in energy trading. Code reviews, Office version migration, and development and adaptation of Oracle stored procedures, views, functions and triggers.

Technologies: Excel, Access, VBA, Oracle, SQL, PL/SQL

IKEA – Financial Application for Supplier Loans

05/2010–09/2010

Enhanced an existing Access/Oracle financial application for loans and credit facilities for suppliers. Business-driven improvements focused on usability. Developed reporting functionality with dynamically defined user filters connected by AND/OR conditions.

Technologies: Access, VBA, Oracle, SQL, PL/SQL

Mechanical Engineering – Cutting and Welding Robots

03/2010–10/2010

Developed a new Access application from scratch to manage cutting and positioning data. Excel import, a Visual Basic user interface and RS485 connection to the machine controller. Integrated existing C++ control functions into Visual Basic via DLLs.

Technologies: Access, VBA, Visual Basic, C++, DLL, RS485, Excel

Clariden Leu – Financial Forecasting

01/2010–03/2010

Developed a new Access application from scratch to replace an Excel solution for financial and budget forecasts. Imported MIS data via CSV, maintained master data and control values, calculated forecasts for three subsequent years and exported results to the MIS.

Technologies: Access, VBA, Excel, SQL, CSV

Consultancy – Commercial Office Automation

01/2010–02/2010

Developed an Excel/VBA application from scratch for blended costing, product and supplier administration, and automatic generation of quotations, purchase orders, invoices, credit notes, delivery notes and reminders using Word templates.

Technologies: Excel, Word, VBA

E.ON Sales – Intelligent Access Data Import

11/2009

Optimised an Access application and developed field-by-field comparison of existing and new records, allowing users to select individual values for import.

Technologies: Access, VBA

Leasing Company – Informix Reporting

10/2008–11/2009

Independently developed and maintained business reports, ad-hoc SQL queries and stored procedures. Administered Crystal Enterprise, including scheduled publication of reports on the intranet.

Technologies: Informix, SQL, Stored Procedures, Crystal Reports, Crystal Enterprise

E.ON Bayern – Rule-Based EDIFACT Mailbox Routing

03/2008–08/2011

Independently developed a new Visual Basic application for checking Outlook mailboxes and attachments. Managed rules in Access; automatically classified, moved and forwarded messages to market partners.

Result: Subsequent support as needed under a multi-year maintenance agreement.

Technologies: Visual Basic, Outlook, Access, VBA, EDIFACT, UTILMD, MSCONS, CSV, ZIP

Cygnum Switzerland – HR Reporting

01/2008–08/2011

Developed new Crystal Reports and maintained existing reports for an HR application.

Technologies: Crystal Reports, SQL Server, SQL, XpertLine

Leasing Company – Application Development

06/2007–10/2008

Enhanced a leasing application written in C on Linux with Informix, particularly fault analysis and corrections to existing functions.

Technologies: C, Linux, Informix

E.ON Bayern – Balancing Group Analysis and Excel Automation

04/2007–03/2008

Developed Access/VBA solutions to convert, validate and analyse distribution network operator data from Excel, CSV and EDIFACT in SQL Server. Developed Excel automation for recurring manual data preparation.

Result: A recurring monthly workload of approximately two days was reduced to around two minutes with a tool developed in two working days.

Technologies: Access, Excel, VBA, SQL Server, T-SQL, EDIFACT

Swiss Re – Financial Mathematics and Host Integration

01/2006–06/2007

Took over and enhanced an Excel/VBA application for risk calculations. Integrated host data, developed COBOL code for DB2 access and created a prototype Java file service (proof of concept).

Result: Productive after one week instead of the planned four-week onboarding; an initial three-month engagement was extended to approximately 18 months.

Technologies: Excel, VBA, COBOL, DB2, Java, Host integration

DATEV – Modernisation of Host Interfaces

09/2005–12/2005

Independently implemented new C++ interfaces between host systems and Windows applications using a proxy/stub architecture and transport model.

Technologies: C++, COBOL interfaces, Visual Studio, SourceSafe

Automotive Supplier – Reverse Engineering of an Access Application

09/2005

Analysed an undocumented Access/VBA application for the HR department, reconstructed the database and code relationships, implemented additional requirements and migrated to another Office version.

Technologies: Access, VBA

Deutsche Post – Excel/VBA Reporting with TM1

07/2005–09/2005

Extended an Excel/VBA reporting solution with further automated imports from the TM1 OLAP database, data preparation and report generation.

Technologies: Excel, VBA, TM1/Applix, OLAP

UBS – Quick Wins in Portfolio Management

02/2005–05/2005

Developed small custom Access and Excel applications to address urgent business requirements and ad-hoc reporting in portfolio management.

Technologies: Access, Excel, VBA, Oracle, SQL Server

Swiss Life – HR Applications and Reporting

08/2004–12/2004

Enhanced and migrated Access applications in human resources; produced Crystal Reports for employee administration, applicant management and HR controlling, as well as forms for administrative reporting processes.

Technologies: Access, SQL Server, Crystal Reports, Excel, ODBC

E.ON – Energy Balancing and Management Dashboard

05/2003–07/2004; follow-up engagement 01/2005–02/2005

Developed Access/VBA database applications for energy balancing, a management dashboard for key business figures and an Excel/VBA-based intranet solution. Data integration, reporting, HTML page generation and migration of older Access applications; later follow-up engagement with change requests.

Technologies: Access, Excel, VBA, Oracle, SAP IS-U, HTML, JavaScript

Rail Infrastructure – Software Redesign and Code Merging

11/2001–03/2003

Redesigned and optimised software components, merged different code versions, and developed, adapted and tested supporting tools, mainly using VBA, Delphi and Kylix.

Technologies: VBA, Delphi, Kylix, Windows, Linux, CVS, SourceSafe

E.ON – Performance Tuning of Address Data Reconciliation

10/2001–03/2003

Took over a slow Access/VBA application for reconciling address and billing data from SAP IS-U and Oracle. Optimised it using indexes, temporary tables, improved matching logic and scheduled Oracle data imports; data was then matched locally in Access.

Result: Process time originally approximately 12–16 hours, then 60–90 minutes, ultimately around ten minutes for the actual matching step after data preparation.

Technologies: Access, VBA, Oracle, SAP IS-U, ODBC, SQL

Hypovereinsbank – RODEO and PMNEU

05/2001–10/2001

Developed two Visual Basic administration tools: RODEO for maintaining master data, plausibility rules and error messages in online securities trading; PMNEU for central management of system parameters in portfolio management.

Technologies: Visual Basic 6, ADO, Oracle 8, Access 97, True DB Grid

Software Company in Chiemgau – Inventory Management

12/2000–04/2001

Developed, maintained and extended program modules for inventory management solutions, including database functions and Crystal Reports reporting.

Technologies: Visual Basic, SQL Server, Stored Procedures, Crystal Reports, ADO

BMW Bank – Web Analytics and Reporting

09/2000–12/2000

Developed and maintained website usage statistics for internet, intranet and extranet offerings to support controlling and marketing; additional work on web server and reporting infrastructure.

Technologies: Crystal Reports, WebTrends, Oracle, SQL, ASP, HTML

Hypovereinsbank – CORSAR Risk Controlling

06/2000–08/2000

Worked in the CORSAR system environment for calculating and analysing mortgage risk data for the bank's internal rating process; the precise development tasks can no longer be reconstructed reliably.

Technologies: Access 97, VBA, Oracle 8, ODBC

Siemens OMC Plus – Database Interfaces in Mobile Communications

01/2000–05/2000

Maintained and extended C++ components with database interfaces to Informix and Oracle in an English-language mobile communications project; UML documentation with Rational Rose.

Technologies: C++, Informix, Oracle, Unix/Solaris, UML, PVCS

Isar-Amperwerke – Sales Information and Control System

07/1999–04/2000

Independently designed the application and database, and developed a complete Access/VBA dashboard with traffic-light indicators for sales KPIs. User- and department-specific views, manual data entry and import of additional data sources.

Result: Rolled out to the client following prototyping, implementation and testing.

Technologies: Access, Excel, VBA

FIDUCIA – ProFIT Banking Software

01/1999–12/1999

Enhanced existing banking software using Visual C++ and adapted database access to Oracle and IBM DB2/UDB.

Technologies: Visual C++, SQL, Oracle, DB2/UDB, Windows NT, OS/2

Deutsche Bank – Business TV

03/1997–08/1998

Independently redesigned an Access 2.0 application for administering branches, TV/video/decoder equipment, inventories and access details. Completed existing functionality and added enhancements, statistics and exports for corporate research.

Technologies: Access 2.0, VBA

VIAG Group – Customer and Employee Address Database

01/1997–03/1997

Independently designed, developed and implemented an Access application for central address management, including import of existing Excel data.

Technologies: Access 2.0, VBA, Excel

Diakonisches Werk Bayern – Business Applications

10/1996–12/1998

Developed several production applications, including central address and membership-fee administration, residential care management, service billing, statistics, financial accounting and banking interfaces, and OLAP reporting. Within a team of three to four developers, quickly assumed a technical lead role and responsibility for subprojects. Standardised code, improved maintainability, and introduced a consistent, user-friendly interface design.

Result: Applications deployed to production, with substantial qualitative improvements in maintainability and usability.

Technologies: Visual C++, MFC, Visual Basic, Access, VBA, SQL Server, ODBC, COM/OLE, Crystal Reports, TM1

Power Plants – BFS Operations Management System

01/1996–09/1996

Provided application maintenance and user-service support at power-plant locations. Independently developed an Access/VBA quality assurance application to manage defects, test cases and test results.

Technologies: Access, VBA

Software Company in Traunstein – ZEISY and ZUBE

04/1992–12/1995

Played a leading role in the development of new time-recording and access-control systems. Led subprojects covering master data, operational organisation, planning and invoicing; database design, application design, prototyping and technical guidance for three employees. Terminal integration for magnetic and chip cards, technical documentation and user training.

Result: Introduced at a pilot customer and subsequently put into production at additional customers.

Technologies: Visual C++, MFC, ISAM, ODBC, Access 2.0, Windows

WESIS – Modernisation of a Site Security System

03/1991–03/1992

Largely independently ported a dBase/Clipper application to Turbo C with an ISAM database, redesigned the user interface and added functionality.

Technologies: Turbo C, C, dBase/Clipper, ISAM

Bayernwerk – Early Software Development

09/1989–02/1991

Independently developed business applications during vocational training as a data processing specialist: fleet management and hazardous-waste disposal using NATURAL/ADABAS, and a training catalogue using COBOL and Assembler.

Technologies: BS2000, NATURAL, ADABAS, COBOL, Assembler

Skills and Technologies

Current Core Skills

Databases and SQL Microsoft SQL Server (T-SQL), Oracle (PL/SQL), PostgreSQL, Microsoft Access, Informix (SPL), MySQL; relational database development, data modelling, stored procedures, views, indexes, query optimisation and performance tuning. Occasional database administration tasks.

Access and VBA Development of new custom Access applications; takeover and enhancement of existing solutions; forms and reports, frontend/backend applications, DAO, ADO, ODBC, database connectivity, fault analysis, maintenance and change requests.

Excel and VBA Excel application development, automation of recurring tasks, complex calculations, import/export, data conversion, reporting and database integration.

Data Integration and Migration Data transfer, ETL, validation and reconciliation, CSV/XML/JSON processing, BLOB migration, interface development and modernisation of database solutions.

Legacy Modernisation Reverse engineering, refactoring, stabilisation and enhancement of long-established business applications; performance tuning and improvements to maintainability, code quality and usability.

Additional Hands-On Project Experience

Software Development C#/.NET, Delphi/Object Pascal and Visual Basic; practical experience to varying degrees with individual .NET frameworks and components such as Entity Framework, Windows Forms, WPF and DevExpress.

Reporting and Business Intelligence Practical project experience with Power BI and Power Query; occasional use of SSRS and SSIS. Access reports, Excel/VBA reporting and data preparation.

Power Platform Practical experience with smaller applications and automations using Power Apps and Power Automate.

Interfaces and Data Formats Development and integration using REST, SOAP and web services; extensive processing of XML, JSON and CSV. In-depth EDIFACT work in selected projects.

Software Quality and Architecture Extensive experience in requirements analysis, technical design, software design, refactoring, unit testing and automated testing; regular use of Test Driven Development (TDD).

Tools and Version Control Visual Studio, Delphi development environments and regular production use of Git; experience with SVN and CVS. Basic knowledge of Docker and container technology.

Collaboration and Support Extensive experience supporting and training users, troubleshooting, change requests and collaboration with business departments. Technical responsibility for defined areas and developer coaching in selected projects.

Earlier Technologies and Legacy Experience

C/C++, COBOL, Java, JavaScript, Pascal, PL/1, Assembler, NATURAL/ADABAS, BS2000, IBM DB2, dBase/Clipper, xBase, ISAM, BDE, COM/OLE/DCOM, Crystal Reports, Crystal Enterprise, UML/Rational Rose and serial communication (RS232). Most of this experience dates from earlier projects.

Industry Experience

Banking and financial services, securities and portfolio management, insurance and reinsurance, energy utilities and trading, automotive and leasing, manufacturing and industrial engineering, mechanical engineering, telecommunications, public administration and the judiciary, universities, IT services, retail and non-profit organisations.

Education, Professional Development and Languages

Education Vocational qualification in data processing and business administration (DV-Kaufmann, IHK).

Professional Development Regular attendance at developer conferences, particularly the Access Developer Conference (AEK), and workshops on VBA, Power BI, Power Apps and Power Automate.

Languages German: native. English: good working proficiency.