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Strategic IT Leader & System Engineer | International Operations | Innovation & AI Specialist | Ex-Siemens Mobility

I am currently exploring new professional challenges where I can leverage my management background, technical depth, and language skills to drive innovation and organizational success.

I am a senior-level professional with over 20 years of experience bridging the gap between complex technical engineering and strategic business management. Most recently, I served as a Medior System Engineer at Siemens Mobility, where I specialized in the digital transformation of railway infrastructure (ETCS Level 1) for international markets, specifically for Swiss national railways (SBB). My career is defined by a unique combination of deep technical roots in electronic engineering and executive leadership, including roles as Director and Key Account Manager. With a Master's degree in Education (Informatics & English), I possess the rare ability to lead teams, mentor colleagues, and translate complex technical concepts into actionable business strategies.

Key Expertise & Value:

- * Technical Engineering: Extensive background in railway digital infrastructure, system engineering, and hardware diagnostics.
- * Strategic Leadership: Proven track record of managing teams (up to 9 people), optimizing business processes, and driving market growth.
- * Innovation & AI: Expert in developing custom AI agents and automation tools (MS Copilot Studio, Power Automate) to enhance team productivity.
- * Key Account Management: Skilled in senior-level B2B negotiations and managing relationships with international stakeholders and distributors.
- * Language Proficiency: Native Slovak with C2-level English (State Examination), B2-level German and professional experience in international corporate environments.

Technical Proficiency:

- * Infrastructure & Tools: ETCS Level 1, SAP EasyDM, Siemens engineering tools, MS Azure, and LAN/WLAN design, Aruba HPE, UniFi
- * Software & Development: Experience with various programming languages (C++, HTML, PHP), database systems (MySQL), MS Copilot Studio (AI development), Notion, JIRA, Docker, and creative suites (Adobe, Corel).

Contents

WORK EXPERIENCE.....	3
System Engineer ETCS Digital Infrastructure / Siemens (Žilina) 11/2022 - 03/2026.....	3
Personal goals pursuit / Apr 2021 - Oct 2022	3
Managing Director / EMARKO, s.r.o. (Turčianske Teplice) 04/2020 - 03/2021.....	3
Key Account Manager & Technical Lead / SOS PC, s.r.o. (Martin) 04/2008 - 03/2020	4
Country Sales Manager (CZ+SK) / ServiceSource (Dublin) 06/2011 - 09/2011.....	4

SKILLS.....	5
EDUCATION.....	6
Catholic University (Ružomberok) 09/2003 - 06/2008.....	6
University of Žilina - Faculty of Management Science and Informatics 09/2002 -06/2003..	6
Integrated Secondary School of Transport (Martin) 09/1998 - 06/2002	6
CERTIFICATIONS.....	7
PROJECTS	7
ILTIS Onboarding Agent "eBuddy": AI-Powered Knowledge Management 12/2025 - 02/2026	7
Custom RPA Solution: Automated Ad Management & Optimization System 11/2025 - 11/2025	8
Custom Fiber Optic Lighting Systems & DMX/IoT Integration 04/2021 - 01/2022	8
Omnichannel Brand Identity & Strategic Marketing Campaign for Emarko s.r.o. 04/2020 - 03/2021	8
Implementation of ISO 37001 Anti-bribery Management System 06/2020 - 08/2020	9
Loxone Building Automation: Nová Ponorka Apartments 01/2018 - 01/2020	9
Enterprise IT Infrastructure Modernization & On-premise Services Deployment 11/2019 - 01/2020	9
Cloud-based Automated Attendance System for ZTS TEES VOS a.s. 01/2018 - 01/2019	10
Next-Gen Smart Estate: High-End Automation, Energy Management & Custom HW Development 05/2016 - 12/2017.....	10
Hybrid Cloud Storage & Smart Surveillance Infrastructure: BOZiPo s.r.o. 04/2017 - 05/2017	10
OpenCart E-commerce Development (LED Lighting Retail) 11/2016 - 01/2017	11
E-commerce Development & Brand Identity: AL-KO Authorized Retail 01/2014 - 01/2016	11
Cloud-based Responsive Service Management CRM for SOS PC, s.r.o. 01/2012 - 01/2015	11
Industrial Wireless Infrastructure & Network Bridge Implementation: Formex s.r.o. 01/2015 - 01/2015	11
Advanced Building Automation & Energy Integration: DRYADA garden s.r.o. 04/2014 - 08/2014	12
International Trade & E-commerce Pilot: Gaming Furniture Import 12/2012 - 03/2013	12
Software Localization & Translation: Website X5 01/2012 - 01/2013.....	13
Advanced Automotive Electronics: ECU Diagnostics & BGA Reballing (Mercedes-Benz) 01/2013 - 01/2013	13

WORK EXPERIENCE

System Engineer ETCS Digital Infrastructure / Siemens (Žilina) 11/2022- 03/2026

Contributed to complex international railway projects focused on ETCS (European Train Control System) Level 1, ensuring the safety and efficiency of digital railway infrastructure. Worked closely with major European operators, primarily the Swiss Federal Railways (SBB).

Key Responsibilities & Projects ETCS Engineering: Analyzed and developed project documentation in compliance with strict ETCS standards and frameworks. Our team was able to deliver the agreed-upon order volume ahead of schedule every time, without compromising on quality.

Trackside Parameter Design: Engineered track parameters for On-Board Units (OBU), including Static Speed Profiles (SSP), Gradient Profiles (GP), and other critical trackside data.

Project Lifecycle & Deployment: Prepared comprehensive reports and documentation for result release, transitioning months of engineering work into live operational deployment (IBN).

Technical Training: Developed training materials and mentored new colleagues to ensure team alignment with technical processes.

IT & AI Innovation: Served as the designated IT Team Assistant, developing custom AI-driven tools within the MS 365 environment to optimize team workflows. The ILTIS eBuddy chatbot was able to cut the training time by 50% and would have saved the senior employee time that would otherwise have been spent mentoring the new hire.

International Collaboration: Conducted daily professional communication in English and German with project leads, R&D centers, and end-customers.

Specialized Software: Utilized a suite of proprietary engineering tools alongside SAP EasyDM, DMS PRO, Citrix Workspace, and ILTIS projection systems.

Personal goals pursuit / Apr 2021- Oct 2022

Career break / Independent R&D / Technical Projects / Project Management and Product owner for Profiweb s.r.o.

Managing Director / EMARKO, s.r.o. (Turčianske Teplice) 04/2020- 03/2021

Led the overall operations and strategic development of a technical vehicle inspection facility (STK), managing a team of 9 employees and optimizing internal business processes.

Key Responsibilities & Achievements:

Executive Leadership: Trained, motivated, and inspired a team of 9 to achieve company goals on schedule and according to the strategic plan.

Strategic Development: Established frameworks for company governance and future growth, including business development outside the local region.

Innovation & Process Optimization: Designed and implemented multi-platform booking systems, an automated HR management system, and a custom database-driven reward system for key clients within existing POS infrastructure. The reward system program resulted in secured future orders and an 8% increase in revenue, which improved cash flow and freed up funds for employee bonuses.

Resource Management: Managed human and technical resources, ensuring effective service delivery and operational efficiency. I reduced employer side obstacles from 17 working days to just 2 days per year.

Compliance & Quality: Initiated the ISO 37001 (Anti-bribery management systems) certification project and maintained valid calibrations for all technical equipment.

Key Client Relations: Represented the company in negotiations with key clients, suppliers, and government regulatory authorities.

Marketing & Analysis: Executed online and offline marketing campaigns and prepared comprehensive financial analyses and reports for the board of directors. My campaigns resulted in a 21% increase in overall customers.

Technical Oversight: Performed core technical repairs in IT and electronics while managing the procurement of new technologies and materials

[Key Account Manager & Technical Lead / SOS PC, s.r.o. \(Martin\) 04/2008- 03/2020](#)

Managed strategic B2B and B2C relationships while leading a technical team of six. Combined key account management, procurement, and senior level negotiations with hands on technical leadership across IT infrastructure, network administration, and service delivery.

Developed and maintained long term partnerships with key clients, including IT deliveries for schools totaling ~€75,000. Managed and delivered a complete server deployment for ZTS TEES VOS a.s. (€23,000), covering configuration, integration, and technical oversight. Implemented a new LAN/WLAN network using Aruba Instant On (HPE) in a project valued at €8,000, including network design, installation, and optimization.

Led, mentored, and scheduled a 6 member technical team, managing escalations, troubleshooting, and complex incident resolution. Oversaw procurement, vendor management, and selection of technical equipment for company operations and client projects. Acted as the final escalation point for critical issues across IT infrastructure, including network outages, server incidents, and system failures.

Handled server administration (NAS, FTP), network infrastructure management, and operational support for contract clients. Contributed to e commerce platform management and supported online/offline marketing activities for retail and small business customers.

[Country Sales Manager \(CZ+SK\) / ServiceSource \(Dublin\) 06/2011- 09/2011](#)

Led the strategic market entry and business establishment of ServiceSource in the Czech and Slovak markets, focusing on cloud based SaaS solutions and outsourced sales performance.

Market Entry Strategy: Planned and executed the regional expansion roadmap, accelerating market presence by 20% faster than initial projections and supporting early revenue growth.

Business Development: Defined and implemented sales strategies for the Central European region, contributing to double digit pipeline growth during the first year.

Market Intelligence: Conducted competitive and market analysis across CZ/SK, identifying high value opportunities and reducing research cycles by 30%.

Operations & Recruitment: Set up local operations, sourced office location, built vendor partnerships, and led recruitment, reducing setup time from 3–4 months to under 8 weeks.

Team Management: Led cross functional teams to achieve operational readiness ahead of schedule, ensuring a smooth launch in a new EU territory.

SKILLS

1. Management, Leadership & Business Operations

Team Leadership & People Management, Product Ownership & Project Management, Vendor Management & Procurement, Supply Chain Management & International Logistics, Risk & Compliance Management (ISO 37001), Sales & Distribution & Margin Analysis

2. IT Infrastructure & Network Engineering

Enterprise Network Infrastructure Design & Architecture, Windows Server Management, Active Directory & Group Policy, Network Security, Network Monitoring & Supervision, Hardware & Vendor Stacks: Aruba Networking (HPE), Ubiquiti, Industrial Wireless Infrastructure & Network Bridging

3. IT Service Management & Support

IT Service Management (ITSM), L2/L3 Technical Support & Incident Management, SAP EasyDM use & ERP Implementations, Cloud Applications & Infrastructure,

4. Software Development & E-commerce

Full-Stack Web Development: PHP, MySQL, E-Commerce Development & Web Design, API Integration, CI/CD Software Management, QA Testing: Manual Testing, Testing & Commissioning (IBN), Online Marketing

5. Automation, AI & Smart Building (IoT)

Building Automation Systems (BAS) & Smart Home, Energy Management Systems (EMS) & EV Charging Integration, HVAC & Heat Pump Control Systems, Artificial Intelligence (AI) Implementation & Business Process Automation, Integrated Security & Access Control Systems

6. Industrial, Hardware & Automotive Engineering

Railroad Engineering & ETCS (European Train Control System), Advanced Automotive Electronics & ECU Diagnostics, Hardware Diagnostics & PCB Troubleshooting, Precision Soldering & BGA Reworking/Reballing, Electrical Design

7. Localization & Languages

Technical Translation & Software Localization

English – C2 - Full professional proficiency

German – B2 - Limited working proficiency

EDUCATION

Catholic University (Ružomberok) 09/2003- 06/2008

Master of Education in Computer and Information Sciences & English language and literature

Activities and societies: Teaching Internship, Programming club, Video editing, Provided peer tutoring to classmates struggling with the curriculum

Double Major: Teaching of Academic Subjects (Informatics & English Language and Literature)
Master's degree focused on the intersection of Computer Science and Pedagogy. This program provided me with advanced knowledge in information technologies while developing professional teaching methodologies for both technical subjects and the English language.

Key Areas of Focus:

Informatics: Software development, computer systems, and digital literacy education.

Linguistics: Advanced English grammar, literature, and language teaching methodology (TESOL/ESL).

Pedagogy & Psychology: Classroom management, instructional design, and educational psychology.

Teaching Internship: Gained hands-on experience in delivering curriculum-aligned lessons and managing student engagement in a classroom setting.

Technical Interests: Active member of the Programming Club and developed skills in Video Editing for educational and creative purposes.

University of Žilina - Faculty of Management Science and Informatics 09/2002-06/2003

Undergraduate studies in Computer and Information Sciences, General

Focus on Fundamentals of Software Engineering, Algorithms, and Data Structures

Integrated Secondary School of Transport (Martin) 09/1998- 06/2002

Secondary School Leaving Certificate and Certificate of Apprenticeship in Electronic Engineering (Low Current)

Focus on Electronic Engineering. Completed my secondary education with a specialization in Low-Current Electronic Engineering, building a strong foundation in technical analysis, electronic circuits, and systems.

Key Achievements:

1st Place – Regional English Language Olympiad: Demonstrated advanced language skills and communication abilities.

3rd Place – Regional Competition of Student Professional Activities (SOČ): Recognized for independent technical research and project presentation.

Extracurricular Involvement:

Active member of a Medieval Club, focusing on historical reenactment and community activities.

Member of a local in-line skating club, promoting an active lifestyle and team spirit.

CERTIFICATIONS

PRINCE2 Project Management Foundation (Version 7) - 08/2026 - PeopleCert
Introduction to Negotiation: A Strategic Playbook for Becoming a Principled and Persuasive Negotiator - 07/2026 - Yale University
Agile Project Management - 05/2026 - Google
Introduction to Project Management with ClickUp - 04/2026 - Coursera
Leading People and Teams Specialization Certificate - 06/2026 - University of Michigan
Accelerate Your Job Search with AI – 06/2026 - Google
Siemens Data Privacy Essentials – 11/2022 - Siemens
Cybersecurity - together we offer a protected portfolio! – 11/2022 - Siemens
Anti Corruption Essentials – 11/2022 - Siemens
Antitrust Essentials – 11/2022 - Siemens
Products and systems of Rail Automation – 09/2023 - Siemens
Discover present rail infrastructure – 11/2022 - Siemens
Discover the rail world – 09/2023 - Siemens
Extensive Introduction to PSS @ SMO – 02/2026 - Siemens
Export Control Specifics for Engineering, Software Engineering, Cybersecurity and Research & Development – 02/2026 - Siemens
Siemens export control essentials – 04/2025 - Siemens
Certified Electrical Specialist (§ 23) in accordance with Decree No. 508/2009 Coll - 11/2022 BOZiPo-SK s.r.o.
BGA Assembly - Higher Level (SMT Surface Mount Technology) - 11/2013 - SMTplus.CZ s.r.o.

PROJECTS

ILTIS Onboarding Agent "eBuddy": AI-Powered Knowledge Management 12/2025-02/2026

Architected and developed 'eBuddy', an intelligent onboarding agent within Microsoft Copilot Studio, specifically designed to train new colleagues on ILTIS technology.

Key Technical Features & Architecture:

RAG (Retrieval Augmented Generation) Implementation: Built a dynamic knowledge base by integrating the agent directly with SharePoint, ensuring the AI utilized the latest technical documentation and training materials.

Advanced Educational Skills: Engineered specific skills allowing the agent to summarize technical training, generate interactive quizzes, and create digital flashcards for effective learning.

Bilingual Support: Developed full bilingual functionality (English/Slovak) with real-time translation capabilities to support a diverse workforce.

Process Guidance: Defined precise skills for the agent to provide step-by-step guidance through complex technical processes.

Strategic Evaluation: Conducted a full pilot deployment and cost-benefit analysis. Ultimately recommended project termination due to high operational costs within the Microsoft ecosystem, demonstrating a strong focus on ROI and resource optimization. Too many users and prompts through paid MS platform

Custom RPA Solution: Automated Ad Management & Optimization System 11/2025-11/2025

Developed a custom Robotic Process Automation (RPA) tool to automate and optimize listing management on the Bazos.sk platform.

Technical Stack & Implementation:

RPA Framework: Utilized Microsoft Power Automate Desktop to automate the end-to-end process of refreshing listings.

Data Management: Implemented an Excel based database to store, track, and manage ad content and metadata.

Workflow Integration: Integrated a Chrome plugin to facilitate seamless interaction with the web interface.

Problem Solving & Security: Successfully engineered workarounds for complex Captcha challenges, ensuring continuous automation despite platform security measures.

Strategic Edge: Unlike the platform's native paid service, this solution included a custom 'reset' feature for view counts, significantly increasing listing visibility and engagement through strategic re-posting

Custom Fiber Optic Lighting Systems & DMX/IoT Integration 04/2021 - 01/2022

Conceptualized and engineered luxury custom lighting solutions, specializing in fiber optic 'Starry Sky' installations and high-end bespoke chandeliers.

Technical Specialization:

Optical Engineering: Designed light sources utilizing PMMA optical fibers for precise light transmission and aesthetic effects.

Advanced Control Systems: Implemented complex lighting control using DMX512 protocols, including wired Daisy Chain configurations and wireless DMX/Wi-Fi converters.

Software & App Integration: Integrated professional lighting control via Lightrider and consumer-grade smart home ecosystems like ZigBee and Google Home.

Product Development: Managed the entire lifecycle from hardware assembly and circuit design to final installation and smart home programming.

Market Evaluation: After one year of operation, I strategically terminated the project following a thorough analysis of market demand and sales performance, prioritizing resources for more scalable technology ventures

Omnichannel Brand Identity & Strategic Marketing Campaign for Emarko s.r.o. 04/2020 - 03/2021

Directed a comprehensive 360-degree marketing strategy to build and strengthen the Emarko brand, integrating offline presence with advanced digital performance marketing.

Key Management & Technical Pillars:

Offline Strategy & Media Buying: Negotiated and managed a large-scale billboard campaign with Gryf, including the supervision of creative design and agency outputs.

Digital Performance Marketing: Engineered and executed targeted advertising campaigns across Google Ads and Facebook, focusing on market reach and brand awareness.

Innovation in Sales Channels: Implemented a social-commerce approach by integrating a reservation system directly through Facebook Marketplace to streamline customer acquisition.

Market Analysis & Business Intelligence: Performed in-depth market analysis to align campaigns with consumer behavior and industry trends. Financial Oversight & Reporting: Managed the entire marketing budget, ensuring cost-efficiency and providing regular performance reports on ROI and brand growth.

Implementation of ISO 37001 Anti-bribery Management System 06/2020- 08/2020

Directed the strategic framework and operational changes required to achieve ISO 37001 certification. This involved risk assessment, policy development, and staff training to prevent, detect, and address bribery within the car inspection (STK) industry.

Loxone Building Automation: Nová Ponorka Apartments 01/2018- 01/2020

Led the end-to-end implementation of a sophisticated Loxone smart building system for the 'Nová Ponorka' apartment complex in the Martinské Hole mountain resort.

Scope of Work & Responsibilities:

Project Lifecycle Management: Managed the entire process from initial conceptual design and technical documentation to material procurement and final commissioning.

On-site Leadership: Coordinated and managed teams of technicians and construction workers to ensure precise execution according to technical specifications.

System Integration:

Successfully integrated multiple subsystems into a centralized intelligent platform, including:

Access Control & Security: Integrated building entry systems and alarm monitoring.

Climate & Wellness: Automated heating control and sauna management.

Environment & Comfort: Lighting scenes and smart weather station (Meteo) integration.

Scalability & Success: Due to the project's high performance and success, the scope was repeatedly expanded during the realization phase to include additional features and units.

Enterprise IT Infrastructure Modernization & On-premise Services Deployment 11/2019- 01/2020

Led and managed a comprehensive modernization of the LAN/WLAN infrastructure and core IT services for ZTS TEES VOS a.s.

Key Technical Achievements:

Next-Gen Networking: Managed the expansion of the WIFI network across the entire facility using a cloud-managed Aruba (HPE) solution, including a complete redesign of the LAN cabling into a star topology.

Windows Server Environment: Deployed and configured a Windows Server 2016 Standard environment, implementing Active Directory and Group Policy for centralized user and device management.

Infrastructure Services: Established a dedicated DHCP server and managed the transition to a robust enterprise-grade network architecture.

Messaging & Collaboration: Implemented and managed an On-premise Exchange Server, ensuring secure and independent internal/external communication.

Cybersecurity: Deployed ESET PROTECT Entry for comprehensive endpoint protection and centralized security management across the organization.

Project Management: Oversaw the entire lifecycle from hardware procurement and physical installation to high-level software configuration and long-term system administration.

Cloud-based Automated Attendance System for ZTS TEES VOS a.s. 01/2018- 01/2019

Co-managed the development of a custom attendance solution on Raspberry Pi/Linux/Android platforms, integrated with the PELARO production planning system for automated data processing.

Next-Gen Smart Estate: High-End Automation, Energy Management & Custom HW Development 05/2016- 12/2017

Mission-critical Smart Home Ecosystem (Loxone & Arduino Hybrid) Engineered a highly customized smart home ecosystem based on the Loxone platform, featuring deep hardware-level integration and a fail-safe hybrid architecture.

Infrastructure & Hardware Engineering

Scalable Star-Topology: Implemented a robust architecture with over 3.5 km of CAT7/UTP cabling, ensuring maximum future-proof reconfigurability.

Hybrid Automation Framework: Developed custom integration using Arduino (Raiduino), utilizing RS-485, Modbus, 1-Wire buses, and UDP broadcasting for high-speed device communication.

R&D & Prototyping: Lab-tested and deployed bespoke hardware, including a smart circulation pump controller and a 'Smart Boiler' conversion via PCB modification and Dallas sensors.

DC Lighting: Engineered a complete DC-powered lighting system integrated with heat recovery (MVHR) and motorized blinds.

Climate Control & Energy Management Precision

Environmental Control: Managed 100+ sensors (temp, humidity, light) to drive floor heating via a triple-safety hysteresis mechanism, eliminating traditional thermostats.

Smart Grid & PV Optimization: Integrated a SolarEdge inverter with a priority on self-consumption to minimize grid exports.

EV Infrastructure: Deployed a high-output 3-phase EV charging station.

Security & IoT Integration Comprehensive Perimeter: Deployed a full-scale alarm system with window sensors, motion detectors, IR-gate security, and intelligent doorbells.

Secure IoT Connectivity: Established an isolated LAN-layer for Google Home, enabling voice control without compromising local network security.

Audio & Future-Proofing: Integrated a multi-zone audio system, pre-wired for localized microphone integration and offline voice control.

Hybrid Cloud Storage & Smart Surveillance Infrastructure: BOZiPo s.r.o. 04/2017- 05/2017

Engineered a robust, high-availability hybrid cloud and surveillance solution for BOZiPo s.r.o., focusing on data integrity and automated monitoring.

Core Technical Infrastructure:

Advanced Storage Solution: Implemented a QNAP-based private cloud featuring a RAID array configured via LUNs for optimized remote file access and automated backups.

Disaster Recovery Strategy: Designed a redundant backup system to external drives with exFAT partitions, specifically engineered to ensure data readability on any OS in case of long-term hardware failure or motherboard unavailability.

Business Continuity: Integrated a dedicated UPS power source to prevent data corruption during power outages and ensure 24/7 system uptime.

Smart Surveillance & Automation: Deployed a Hikvision camera system integrated with a custom SMTP server. Developed an automated workflow that sends time-stamped emails with employee snapshots upon arrival for attendance monitoring. Configured direct streaming and storage of high-definition security footage to the centralized QNAP array.

OpenCart E-commerce Development (LED Lighting Retail) 11/2016- 01/2017

Designed and launched a fully functional online store on the OpenCart platform, including catalog management, payment gateway integration, and SEO optimization specifically for the LED lighting market

E-commerce Development & Brand Identity: AL-KO Authorized Retail 01/2014-01/2016

Developed a comprehensive online retail platform and corporate identity for 'Peter Jančovič – ELEKTROOPRAVY', an authorized seller of AL-KO products.

Key Deliverables:

E-commerce & Catalog Design: Built a functional online store focused on the AL-KO product assortment, including technical documentation and product management.

Corporate Identity: Designed the complete brand identity for the business, ensuring a professional and consistent visual presence across all platforms.

Digital Marketing & PPC: Engineered and managed a long-term Google Ads (PPC) campaign to drive targeted traffic, optimize conversion rates, and increase market visibility.

Full-Stack Execution: Handled everything from the initial technical setup of the e-shop to the creative design and strategic marketing execution

Cloud-based Responsive Service Management CRM for SOS PC, s.r.o. 01/2012-01/2015

Co-developed a comprehensive, fully responsive cloud-based CRM system designed for service management and operational efficiency. The platform integrates multiple business modules to streamline company workflows.

Integrated Modules: Operations: Directory (CRM), Inventory Management (Warehouse), and Point of Sale (POS) system.

HR & Payroll: Employee management, Attendance tracking, Leave management, and Performance-based Compensation.

Business Intelligence: Advanced data analytics, service tracking, and automated digital forms, mailing, front-end entry for customers.

Industrial Wireless Infrastructure & Network Bridge Implementation: Formex s.r.o. 01/2015- 01/2015

Designed and implemented a high-performance wireless network infrastructure to interconnect multiple industrial production halls for Formex.

Key Technical Deliverables: Wireless Bridging: Engineered and deployed long-range wireless bridges using Ubiquiti (AirFiber/PowerBeam) technology to establish stable, high-speed connectivity between separate manufacturing facilities.

Centralized Management: Integrated the entire infrastructure into a single-point management system, enabling real-time monitoring and configuration of all network nodes.

24-Month Systems Oversight: Provided continuous technical supervision and proactive maintenance for 24 months, ensuring 99.9% network uptime for critical production processes.

Industrial IT Infrastructure: Optimized the network to handle high-density data traffic typical of modern manufacturing environments, focusing on low latency and high reliability

Advanced Building Automation & Energy Integration: DRYADA garden s.r.o. 04/2014-08/2014

Led the comprehensive design and implementation of an advanced Loxone automation system for the corporate premises of DRYADA garden, s.r.o.

Key Integration & Technical Scope:

Energy Management: Successfully integrated heat pump control, small photovoltaic solar array and an electric vehicle (EV) charging station into the centralized smart system for optimized energy efficiency.

Specialized Security & Perimeter Control: Engineered a custom solution for managing an electric wildlife fence alongside traditional gate access control.

Wellness & Comfort Automation: Automated the management of a hot tub (whirlpool), lighting systems, and heating, ensuring seamless operation and user comfort.

Full Project Oversight: Managed the entire lifecycle, including system design, technical documentation, material procurement, and the supervision of technicians and contractors during installation.

Adaptive Realization: Successfully scaled the project's complexity during the execution phase to accommodate additional high-tech requirements.

International Trade & E-commerce Pilot: Gaming Furniture Import 12/2012- 03/2013

Managed a complete end-to-end import and sales project for specialized gaming furniture from the Chinese market.

Key Achievements & Skills:

International Logistics & Compliance: Obtained an EORI certificate and independently managed the import process, including direct communication with customs authorities and declarants for JCD (Single Administrative Document) processing.

Sales Performance: Successfully sold 183 units within a 3-month period, demonstrating strong market demand analysis and effective sales channel management.

Strategic Decision Making: Proactively terminated the project after 4 months following a supplier-driven 75% price increase. Evaluated the impact on profit margins and decided to close the channel to maintain financial efficiency rather than operating with diminished returns.

Supply Chain Management: Handled international communication with manufacturers and coordinated the logistics of bulk goods

Software Localization & Translation: Website X5 01/2012- 01/2013

Collaborated on the official Slovak localization and translation of the Website X5 software for the Italian developer Incomedia. This involved translating technical documentation, user interface (UI) elements, and ensuring linguistic accuracy within a professional web design software environment. Manual Testing skills

Advanced Automotive Electronics: ECU Diagnostics & BGA Reballing (Mercedes-Benz) 01/2013- 01/2013

Specialized in high-level hardware diagnostics and component-level repairs of Engine Control Units (ECU) for Mercedes-Benz vehicles, focusing on restoring microprocessor integrity.

Technical Key Competencies:

BGA Reballing: Executed the complete repair cycle for Ball Grid Array (BGA) chips, including safe desoldering, pad cleaning, re-sphere application, and precision reflow using infrared and hot-air rework stations.

Hardware Diagnostics: Performed advanced troubleshooting at the Printed Circuit Board (PCB) level to identify cold solder joints, micro-cracking, and thermal degradation within the units.

Precision Micro-soldering: Utilized specialized microscopy and precision soldering tools to repair trace damages and replace surface-mount devices (SMD) critical to automotive engine management.

Reliability Standards: Ensured all hardware interventions met the high-durability requirements of the automotive industry, specifically focusing on resistance to extreme vibrations and thermal cycling in engine environments