

KALPESH PARMAR



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Professional Summary

ThingWorx Expert with 8+ years of experience in the **Automation Industry**, specializing in **IIoT projects**, **MES applications**, and **real-time data integration** with systems like SAP and Windchill. Proven ability to drive **Industry 4.0 digital transformations**, enhance application performance, and deliver scalable and modular solutions.

Professional Experience

ThingWorx Expert

IGW India Technologies Pvt. Ltd. (Part of BMT Group)

October 2023 – Present

- Enhanced application performance and optimized end-user requirements.
- Developed and managed two standalone applications: **Gear System Order Processing** and **Quality Application**.
- Led application deployment and third-party integration with **SAP** and **Windchill** using **ThingWorx**.

Senior Application Developer (ThingWorx)

Xylem Water Solutions India Pvt. Ltd.

July 2019 – October 2023

- Managed **installation, upgrade, and configuration** of ThingWorx and associated applications.
- Designed database tables and modeled projects in **ThingWorx**.
- Developed a **customized MES application** for shopfloor digitization with a scalable, modular architecture.
- Deployed **RTPPM** (Real-Time Production Performance Monitoring) and initiated **DPM** (Digital Performance Management).
- Executed the **TARON Filter Project**, including control philosophy finalization, PLC programming, and FAT/SAT.
- Worked on communication protocols such as **Modbus TCP/IP**, **RS232**, **Ethernet TCP/IP**, and **Profibus**.

Project Engineer

Sai Applied Technology Pvt. Ltd.

November 2016 – June 2019

- Commissioned **PLC-based SCADA systems**, including I/O list finalization, PLC programming, and UI design.
- Worked on critical projects like **WTP**, **Pumping Stations**, and **Sewage Water Treatment Projects**.

Techno Engineer**Luna Bearings (Mumbai)**

April 2016 – August 2016

- Provided technical assistance for servo motor drives and mechanical products in the Surat region.

Service Engineer**PATCON Automation**

September 2015 – March 2016

- Commissioned **Allen Bradley-based PLC systems** and provided post-deployment support.
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Technical Skills**IIoT Platforms & Applications**

- **ThingWorx (v8.5.2 – 9.3.9)**
- **Real-Time Production Performance Monitoring (RTPPM)**
- **Digital Performance Management (DPM)**

Industrial Gateways & Protocols

- **Kepware Server (v6.0.x)**
- **Ethernet, Modbus RTU/TCP-IP, RS232, Profibus, Fiber Optic**

Business Intelligence Tools

- **Power BI Desktop, SQL Server Reporting Services (SSRS)**

Database Management

- **Microsoft SQL Server (2016/2017/2022)**
- **PostgreSQL**

PLC/HMI/SCADA

- **Allen Bradley:** Micro PLC, Compact Logix, Control Logix, Studio5000, FactoryTalk
- **Siemens:** S7-1500, S7-400, TIA Portal, WinCC

- **Schneider:** M340/M580, Unity Pro XL

Programming Languages

- **JavaScript, Python, Visual Basic 6.0, Ladder Logic, FBD**

Other Software

- **Matlab, Simulink, LabVIEW 2009**
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Certifications

- **ThingWorx Fundamental Certification** – PTC University (2022-2023)
 - **Certified Ethical Hacker (CEH)** – UN Council (2014)
 - **Postgraduate Diploma in Industrial Automation** – Prolific Systems & Technologies Pvt. Ltd. (2016)
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Education

- **B.Tech in Instrumentation and Control Engineering**
Nirma University, Ahmedabad (2012) – 55.7%
 - **Higher Secondary** – GHSEB (2008) – 76%
 - **Secondary** – GSEB (2006) – 83.71%
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Key Projects

1. **MES Application Development**
 - Fully digitized shopfloor activities with a modular and scalable design.
 2. **Gear System Order Processing**
 - Enhanced system performance and ensured seamless integration with SAP and Windchill.
 3. **Real-Time Production Monitoring**
 - Deployed RTPPM and initiated DPM for performance optimization.
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Personal Information

- **Languages:** English, Hindi, Gujarati
- **Availability:** Remote/Pune.
- **Notice Period:** 1 month