


# Payman Abbasian

## Industrial IoT & SCADA Architect | Technical Product Developer

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### Professional Summary

Experienced Technical Product Developer with nearly two decades of expertise in Industrial IoT, SCADA systems, and energy automation. Currently leading digital transformation initiatives at E.ON, Europe's largest energy corporation, specializing in Virtual Power Plants, distributed energy resources, and smart grid infrastructure. Proven track record in enterprise-wide system migrations, Kubernetes automation, and real-time industrial protocol integration across UK and German energy markets.

### Key Technical Achievements

- ▶ Led enterprise-wide migration from legacy Eclipse SCADA systems to modern Node-RED architecture
- ▶ Architected and implemented automated deployment pipelines using Kubernetes for energy asset management
- ▶ Developed integration solutions for multiple industrial protocols (Modbus, IEC104, Profibus)
- ▶ Built real-time data delivery systems connecting power plants to transmission operators
- ▶ Designed steering box solutions for battery assets in Virtual Power Plant systems
- ▶ Implemented 24/7 operational monitoring systems for distributed energy resources across UK and Germany

### Professional Experience

**Technical Product Developer @ E.ON SE**

2021 - Present

- Migrated product development from Eclipse SCADA to Node-RED, modernizing development workflows
- Onboarded new asset types to VPP and developed steering box solutions for battery assets
- Automated energy asset onboarding processes using Kubernetes orchestration
- Enhanced system scalability and reliability through modern architecture patterns
- Led cross-functional teams in implementing distributed energy resource management systems

**Technical Operations Manager @ E.ON SE**

October 2019 - January 2021

- Served as technical expert for various flexibility products and energy storage assets
- Managed product ownership and development of UK balancing market products
- Led stakeholder management initiatives across internal teams and external partners
- Implemented new energy projects across UK and German markets
- Responsible for 24/7 operations of Virtual Power Plant (VPP) systems

**Software Developer @ IBH Systems (E.ON)**

February 2017 - June 2018

- Developed Java applications using Eclipse SCADA framework for industrial automation
- Implemented IoT system integrations and industrial protocol communications
- Built real-time data delivery systems from power plants to grid operators
- Connected diverse customer PLCs using Modbus, IEC104, and Profibus protocols

**CEO & Founder @ Violer**

September 2015 - September 2016

- Founded and led software development company specializing in modern web technologies
- Developed applications using Node.js, Meteor.js, and MongoDB stack
- Managed complete software development lifecycle from conception to deployment

**System Developer @ JetSoft AB**

June 2015 - August 2015

- Built interactive ERP dashboard using Angular frontend and NancyFX backend

**System Developer @ Getupdated Internet Marketing**

June 2012 - May 2015

- Developed modular report generation and scheduling systems using C# and .NET
- Designed and implemented automated reporting workflows
- Full-stack web development with focus on backend system architecture

## Core Technical Skills

### Programming & Development

- Java, C#, JavaScript, Node.js
- Go (Golang), Python
- Object-oriented design patterns
- Event-driven architecture
- Concurrency & parallelism

### Industrial Communication

- Modbus TCP/RTU, IEC104
- Profibus, OPC-UA
- IEC 61850, DNP3
- SCADA protocols
- PLC integration

### Energy & Automation

- Virtual Power Plants (VPP)
- Battery Energy Storage Systems
- Grid integration & balancing
- Eclipse SCADA, Node-RED
- Industrial IoT systems

### Cloud & DevOps

- Kubernetes, Docker
- Azure, AWS platforms
- CI/CD pipelines
- Microservices architecture
- Linux/Windows administration

### Databases & APIs

- PostgreSQL, Oracle, MySQL
- SQL Server, Redis, Elasticsearch
- REST/SOAP APIs
- Message queuing systems
- Real-time data processing

### Infrastructure & Tools

- Apache Kafka, Nginx
- Apache HTTP Server, IIS
- HAProxy load balancing
- Digital twins implementation
- Predictive maintenance systems

## Domain Expertise - Energy Sector



### Battery Energy Storage Systems

- Asset integration and management
- Steering box development
- Real-time monitoring systems
- Grid-scale battery coordination



### Virtual Power Plants (VPP)

- 24/7 operations management
- Asset onboarding automation
- Distributed resource coordination
- Frequency regulation services

## Key Projects

### SCADA to Node-RED Migration

E.ON Germany

Led complete migration from legacy Eclipse SCADA to Node-RED, modernizing development pipeline and enabling faster deployment of energy management features.

*Technologies: Eclipse SCADA, Node-RED, System Architecture*

### Kubernetes Automation Platform

E.ON Germany

Implemented comprehensive automation using Kubernetes for energy asset management, significantly reducing manual effort and improving deployment reliability.

*Technologies: Kubernetes, Docker, Automation, DevOps*

### Real-time Power Plant Data Systems

IBH Systems (E.ON)

Developed robust data systems connecting power plants to transmission operators using industrial protocols, enabling reliable grid operations.

*Technologies: SCADA, Modbus, IEC104, Real-time Systems, PLC Integration*

## Education & Certifications

Environmental Health

Islamic Azad University

Microsoft Certified Solutions Developer (MCSD)

Microsoft

March 2004