

## Summary

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### Years of Experience

8.5

### Office of Employment

Chennai

### Industries

- Oil and Gas
- Onshore
- Offshore

### Areas of Expertise

- Process Automation
- Control System
- DCS, SM Hardware
- DCS Configuration
- Project Detailed Design
- Engineering Design
- FAT, SAT & Commissioning
- Coordination/Interface

## Professional Summary

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Swapnil is a process Automation and Control system design specialist. His design experience in the field of oil and gas industries for control system has covered assessment of opportunities and conceptual Engineering design. He is experienced in designing DCS systems for Process Automation Plants. As a control system engineer, he has worked on Distributed Control system, Level 1 & 2 system architecture for process plants with available resources like P&ID, Tag database, Control Narratives, data sheets and various philosophy documents. He has expertise in Honeywell control system and hands-on experience on Honeywell control system Hardware design and troubleshooting. He has carried out multiple project Engineering Design and proficient in the areas of project design, coordination, installation, testing, FAT, SAT & commissioning of the control system. He has experience of Interface between Clients and Engineering team.

He gains Extensive experience in control system combined with proficiency in managing engineering operations & maintenance functions. He Skilled in improving the efficiency of the automation & control system design using available resources as per the requirements. He has varied experience on multiple Process Automation project in oil and gas production systems, these include FEED Input study to control system design, troubleshooting and complete project cycle till As build and As supplied documentations.

## Qualifications

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### Education

- Bachelor of Engineering in Industrial Electronics, MGM's Jawaharlal Nehru Engineering college, Aurangabad, India (2010)
- Diploma in Electronics Engineering, MSBTE board Mumbai, India (2007)

### Software / Skills

- Honeywell's EPKS
- HMI, SCADA
- TPS
- VP Link
- C#, VB

### Languages

- English
- Hindi
- Marathi

## **Experience**

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### **Senior Process Automation and Control | Wood, Chennai India**

- Understanding Control System project requirements and execution
- Familiarization with VP Link for Control System projects and plant simulation.

### **Senior System Engineer | Honeywell Automation India (Global Engineering Services – Honeywell Process Solution)**

#### **Key Result Areas:**

- Designing Automation & Control Systems involving configuration, Hardware design and testing of Human Machine Interface.
- Coordinating the development including requirement analysis, finalizing specifications, and process code development and testing activities.
- Preparing Installation Procedures and Documents based on the functional specification (DDS, FDS)
- Administrating the installation and commissioning of control system; contributing in troubleshooting of DCS controlled machines.
- Managing activities, working out various requirements & administrating overall project operations for ensuring timely completion.
- Focusing on cost / time cycle reduction, improvement of process variables and process conditions.
- Monitoring the project activities involving working out various requirements with respect to utilities, machines, manpower & monitoring overall project operations for ensuring timely completion.
- Executing cost saving techniques / measures and modifications to achieve substantial reduction in expenditures within the budget.
- Supervising the process of scope definition and change control.
- Coordinating technical design and engineering implementation of project work; identifying the technologies to be used for new applications, and extensions of current architectures.
- Developing and implementing standard practices, as well as providing detailed documentation upon project completion.
- Executing process measurement, control instrumentation & services to monitor, record & optimize manufacturing processes, also configuring and programming various equipment.
- Analyzing all drawings related to automation & control system including AC/DC electrical loop typical drawings, System and Marshalling cabinet design, Server & Network cabinet and Console/flex station design.
- Managing overall activities pertaining to installation and commissioning of a wide range of state of art technology DCS systems and other process plants on control system.
- Leading, mentoring & monitoring the performance of team members to ensure efficiency in process operations and achieving of project targets.

# Swapnil Zatale

## Process Automation and Control System

### Senior Engineer



#### Projects:

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**Project Title:** TCO (Tengizchevroil) 3G/FGP (Future Growth Project)  
**Period:** Jan'15-Jul'19  
**Role:** PAS Project Hardware Execution & Project Interface Engineer.  
**Project Location:** Republic of Kazakhstan  
**Engineering Location:** Surrey County, United Kingdom (Deputed to Woodgroup, UK)  
**Environment:** Honeywell's C300 Controller, Server R-501.1 & SM 161.1  
**Implementation Partner:** Honeywell and Wood as a MAC (Main Automation contractor)  
**Responsibilities:**

- Contributed and Executed in the Control System Hardware Design
- Designed Prototype/Typical Detailed Templates for hardware design development, testing and troubleshooting in accordance with project specifications for all the activities for prototype.
- Prepared the system drawings and documents (System, Marshalling, Server, Network Electrical Wiring, Loop Typical)
- Managed
  - Coordination between MAC and BO for Engineering design and deliverables.
  - Bill of Material (BOM) for design, procurement and coordination with Factory to build panels
  - TPC (Total Plant Configurator) for Server, System cabinets including Universal IO (UIO)
- Developed FDM Details Design documents with respect to Virtualization as Project Automation Asset Management
- Performed Power and Heat-Load calculations for all the RIEs, Generation of Wiring Schedule and cable schedule.
- Interface lead for Engineering activities between Honeywell Pune and Wood, Woking, UK.
- Liaise with VEP, VP link for SM systems.

**Project Title:** Mydian Gas Processing  
**Period:** May'14-Dec'14  
**Role:** Project Engineer for Software, Leading for Hardware Details Design  
**Project Location:** Kingdom of Saudi Arabia  
**Environment:** Honeywell's C300 Controller, Server R-430  
**Implementation Partner:** Honeywell  
**Responsibilities:**

- Worked on system detailed design, hardware and software DDS, FAT procedure specification.
- Gathered the functional design requirements for DCS.
- Created and maintained the Master Engineering Database
- Developed system drawings and documents (System, Marshalling, Network-Server & Electrical Wiring)
- Procured, consolidated and prepared costing BOM for System, Marshalling and Network Cabinets
- Designed system layout, AC/DC loop typical and electrical wiring drawings and FF IO assignment



**Project Title:** SGD (SAT and Commissioning)  
**Project Location:** United Arab Emirates  
**Project Type:** SAT, Commissioning, plant startup  
**Implementation Partner:** Honeywell  
**Period:** Oct'13 – May'14  
**Role:** Project Engineer  
**Environment:** Honeywell's C300 Controller, Server R-400  
**Tools Used:** EPKS Control Builder, Smart Builder, SCADA, FDM

**Project Title:** New Page Duluth Migration  
**Project Location:** United States of America (USA)  
**Location:** GES-HPS, Pune, India  
**Project Type:** Migration Project PGW Emerson RS3 to Honeywell C300  
**Implementation Partner:** Honeywell  
**Duration on Project:** Sep'13-Oct'13  
**Role:** Project Engineer  
**Environment:** Honeywell's C300 controller, Server R-410.1  
**Tools Used:** EPKS Control Builder, Smart Builder

**Project Title:** Humber Refinery- Sulphur Recovery Upgrade Project  
**Project Location:** United Kingdom  
**Project Type:** Implementation for Honeywell's HPM  
**Client:** Phillips 66 LTD, UK  
**Implementation Partner:** Honeywell  
**Period:** Jul'13 – Sep'13  
**Role:** Project Engineer  
**Environment:** Honeywell's HPM Controller

**Project Title:** LA Waste Water Treatment Plant  
**Project Location:** Los Angeles (USA)  
**Project Type:** Migration Project (AB to Honeywell DCS)  
**Client:** Los Angeles Bureau of Sanitation (LABOS)  
**Implementation Partner:** Honeywell  
**Period:** May'13 – Jul'13  
**Role:** Project Engineer  
**Environment:** Honeywell's DCS C-300 Controller, Server - EPKS R-401

**Project Title:** Shah Gas Development  
**Project Location:** Abu Dhabi (UAE)  
**Engineering Location:** Honeywell, GES-HPS, Pune India Project  
**FAT Location:** Abu Dhabi (UAE)  
**Project Type:** Implementation Project  
**Client:** Abu Dhabi National Oil Company (ADNOC)  
**EPC:** Saipem Spa, Italy  
**Implementation Partner:** Honeywell  
**Period:** Sep'11 – May'13 (Sep'11 to Apr'12 deputed to Honeywell from PAC)  
**Role:** Project Engineer for Engineering design, FAT  
**Environment:** Honeywell's DCS C-300 controller, Server - EPKS R-400.2

## Certifications

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- **Six Sigma Green Belt Core** Certified in 2015
- **Honeywell's System Certification** at Honeywell in 2015 for fulfilling the prerequisites, training, testing and troubleshooting requirements in this engineering discipline
- **EPKS Certified Engineer Certification** at Honeywell in 2013 for showcasing EPKS Engineering-specific knowledge, skills and experience on various projects
- Honeywell's Experion PKS P&AS **Hardware Certified Engineer**.

## Industrial Trainings

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- Completed certified course of Honeywell's Experion-PKS DCS, SCADA and PLC from JRD TATA Honeywell Automation India Limited, Pune. Jan-Feb 2011.
  - Covering: Honeywell Experion PKS Servers R310 for Controllers C200 & C300 with Hardware Configuration; Console Stations, Console Ex, Configuration and Complete Process Plant Logic Building using Control Builder, Development of HMI using HMI Web Display Builder. Configuration of All Assets, Points, Operator & System Security along with Alarms & Group Configurations, Safety Manager (SM) control for SIS and FGS Systems.
- Training on FDM Server (Field Device Manager) at Honeywell Automation as a Part of "Replacement Control System for Area 232 at Ras Tanura" SAUDI ARAMCO Project.
- In-Plant Training at Rashtriya Chemicals & Fertilizers (RCF) Limited, Mumbai, as a part of Honeywell's DCS Certification.

## Presentations and Publications

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- Smart Card for Secure System Access. Presented in Govt College of Polytechnic Amravati.
- Holographic Technology. Presented in JNEC and Govt college of Engineering Aurangabad.
- Electricity Theft Detector and Billing using GSM as a Academic Project Leader, 2010: JNEC Aurangabad.
- Home Appliances Controller using Infrared Remote Control as Project Leader, 2007: Dr. P. D. Polytechnic, Amravati.

## Professional History

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- Wood, Chennai India (Sept 2019 – Present)
- Honeywell India (Apr 2012 – Sept 2019)
- PAC Automation, Pune India (Feb 2011 – Apr 2012)
- Freelancer for Academic Engineering Projects (Aug 2010 – Jan 2011)