

K MERLIN SEELAN

75/4, Om Ganesh Puja, Gandhi Nagar,
Dombivli (East), Maharashtra-421204.
Email: merlinseelan25@gmail.com
Mobile: +91-9619105025

PROFILE SUMMARY: -

- Offering over 1 year and 5 months of experience as **DATA ENGINEER / SERVICE ENGINEER** in Oil and Gas RIG platform for design, installation, commissioning and decommissioning.
- Offering over 1 year and 7 months of experience as **PROJECT ENGINEER** in Factory Automation for project handling, design, project planning, installation and commissioning.
- Offering over 7 months of experience as **ME PROJECT WORK** in PLC and SCADA design.
- Experience in maintaining project schedule by monitoring project progress, coordinating activities, resolving problems, site commissioning.
- Experience in controlling project plan by reviewing design, specifications, plan and schedule changes, recommending actions.
- On Site installation and commissioning experiences in Logic design, development & Logic testing.

CAREER OBJECTIVE: -

I am looking ahead to work in a professional, growth-oriented organization, where in one can make significant contribution to the success of the organization. Seeking a position that involves creativity, challenges and that provides me, an opportunity to constantly strive to explore, innovate & excel in attaining organizational and my individual goals. I can thrive in a high-pressure environment, enjoy the challenges of meeting deadlines and work in a team.

WORK EXPERIENCE: -

1. Designation: - Data Engineer/Service Engineer.

Duration: February 2017 – Till Today (1 Year and 5 Months).

Organization Name: Oil Field Instrumentation (India) Pvt. Ltd. Rabale, Navi Mumbai.

Responsibilities: -

- Design, installation of field instrument, calibration, commissioning report and de-commissioning report at various Oil and Gas RIG platform.
- Real time data acquisition and monitoring of data with alarm on critical parameters, data storage option, computerized logs and web enabled transmission or VSAT.
- Parameters measured and monitored during drilling are Total Depth (**TD**), Rate of Penetration (**ROP**), Weight on Hook (**HL**), Weight on Bit (**WOB**), Rotation per minute (**RPM**), Stand Pipe Press (**SPP**), Stroke per minute (**SPM**), Mud Flow, Conductivity, Total Gas (**TG**), Chromatographic analysis (**THA**) and H2S etc.

Previous Assignments: -

Position	Country	Service Company	Operator	From	To
Data Engineer/ Service Engineer	India	ONGC	Production Testing & Rig DOWN	08/03/2017	08/04/2017
	India	ONGC	Rig UP & Drilling	19/05/2017	07/06/2017
	India	ONGC	Rig UP, Drilling & Rig DOWN	16/06/2017	17/08/2017
	India	ONGC	Production Testing & Rig DOWN	17/09/2017	19/10/2017
	India	ONGC	Drilling, Casing & Production Testing	21/11/2017	15/12/2017
	India	ONGC	Drilling, Casing & Production Testing	14/01/2018	17/02/2018
	India	ONGC	Drilling, Casing, Production Testing & Rig DOWN	10/03/2018	28/03/2018
	India	ONGC	Drilling, Casing, Production Testing & Rig DOWN	15/04/2018	10/05/2018

2. Designation: - Project Engineer.

Duration: July 2015 – February 2017 (1 Year and 7 Months).

Organization Name: Leelavati Automation Pvt. Ltd., Kurla, Mumbai.

Responsibilities: -

- Project design, planning, scheduling and reporting etc.
- Listing of BOQ and material procurement.
- Participating in time to time review meetings of the completion of the project.
- Conducted factory and site acceptance tests in coordination with all relevant departments.
- Onsite, Field Work - Provide guidance, training and support services.
- Inspect the status of work at project site on weekly basis; estimate any variation & obtaining necessary approvals by client side.
- Documentation of operation manual along with wiring diagram or process diagram in AutoCAD and Visio.
- Executed test plans and procedures.

Project Handled: -

- **Konkan railway corporation ltd (KRCL)** at Ratnagiri, Chiplun.
 - Design, Installation and Commissioning of pressure transmitter, float type level, temperature sensor, speed rpm meter, ultrasonic sensors of DG set with data acquisition system interfaced with SCADA system.
 - **Hawa valves** at Navi Mumbai.
 - Design, Installation and Commissioning of counter, pressure transmitter, pressure relief valve and thermowell temperature sensor in line for testing test valve with SCADA system.
 - Design of Hook Up diagram and DAS integrated with SCADA system.
 - **Chhatrapati Shivaji International Airport Terminal 2** at Mumbai.
 - Design, Installation and Commissioning of relay incomer trip alarm using GSM system in RTU panel.
 - Design, Installation and Commissioning of energy meter monitoring system in control panel with SCADA system.
 - **Kamath Ourtimes Ice Cream Pvt. Ltd.** at Kandiwali.
 - Design, Installation and Commissioning of level probes, level controller with solenoid valve and temperature sensor PT100, temperature controller in panel for hot water tank.
 - Design, Installation and Commissioning of temperature sensor PT100 with 7 segment display temperature reading in degree Celsius.
 - Design, Installation and Commissioning of Float Sensor with solenoid valve in line.
 - **Ctrls Datacenters Ltd.** at Mahape.
 - Design, Installation and Commissioning of probe type level transmitter and integration with BMS system.
 - Design, Installation and Commissioning of ultrasonic level transmitter and integration with BMS system.
 - **Sudevi Chemicals** at Dombivli.
 - Design, Installation and Commissioning of electromagnetic flow meter with RS485 Modbus communication protocol.
 - **Dalal Plastics Private Limited** at Navi Mumbai.
 - Design, Installation and Commissioning of control panel for inspection monitoring.
 - **Dow Agrosciences India Pvt. Ltd.** at Chiplun.
 - Design, Installation and Commissioning of inductive, capacitive, photoelectric sensors in process machine.
 - **Mukand Iron Steel Company** at Airoli.
 - Design, Installation and Commissioning of count and temperature of steel rod in 7 segment big size display with RS485 Modbus communication.
 - **Universal Speciality Chemicals Pvt. Ltd.** at Karjat.
 - Design, Installation and Commissioning of VDF for 5HP motor and 10 HP motor in control panel.
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- **Reliance Center** at Santacruz.
 - Design, Installation and Commissioning of PLC control panel with RS485 to Ethernet converter and number of count displayed in 7 segment displays for PMS.
- **Autopack Machines Pvt. Ltd.** at Dombivli.
 - Design, Installation and Commissioning of DC servo motor device for forward and reverse direction movement of the piston CAM.
- **Wimco Limited** at Ambernath.
 - Design, Installation and Commissioning of inductive, capacitive, photoelectric sensors in machine.
- **Saf Yeast Company Pvt Ltd.** at Chiplun.
 - Design, Installation and Commissioning of PLC control panel with pneumatic valve for cutting.

3. Designation: - ME Project Work.

Duration: Sep 2014 - April 2015 (7 Months).

Organization Name: ISRO Propulsion Complex (IPRC), Mahendragiri, Tamil Nadu.

Responsibilities: -

- Commissioning of Control System with B&R PLC for testing of Cryogenic Engines & Stages.
- Hardware Configuration of PLC in Hot and Standby mode with Remote I/O configuration.
- Networking of Control System via redundant switches.
- PLC programming (CFC, Structured Text, Function block) using APROL software.
- PLC SCADA DCS development.
- MIMIC design development.
- System Software installation in Linux platform.

SAFETY TRAINING: -

- Obtained Fire prevention & fire fighting, Helicopter underwater escape training and sea survival (HUESS) and Basic offshore safety induction and emergency training (BOSIET) from GSMS Maritime Training Institute.

TECHNICAL QUALIFICATION: -

- Obtained Advance Diploma in Industrial Automation (**ADIA**) from Technocrat Automation Pvt. Limited (IAO Accredited), Chennai. With **5 months hands on practical experience** in Industrial Automation Tools specializing in **PLC, DCS, SCADA** and **VFD**.
- Obtained Cisco Certificate Networking Associate (**CCNA**) from NIIT, Pondicherry with **45 Days hands on practical experience** in Router and switches basic configuration, Routing protocols like **RIP, OSPF, EIGRP, BGP, Static Routing and Default Routing**.
- Obtained **Comp TIA A+** from NIIT, Pondicherry. With **30 Days hands on practical experience** in install and troubleshoot **Microsoft Windows** operating systems and **Troubleshoot system components**.
- Obtained from **Instrumentation Design** from Oil and Gas Club, Chennai with practical and live project work experience.
- Obtained Smart Plant Instrumentation (**Intergraph SPI**) – **Intools v7.0** from Oil and Gas Club, Chennai. with practical and live project work experience.
- Obtained Smart Plant 3D (**Intergraph SP3D**) from Oil and Gas Club, Chennai with practical and live project work experience.
- Obtained Plant Design Management System (**Aveva PDMS 12.0 SP4.10**) from Oil and Gas Club, Chennai with practical and live project work experience.
- Obtained CAD (**AutoCAD**) from Oil and Gas Club, Chennai with practical and live project work experience.

TECHNICAL SKILLS: -

- **SPI Intools** – Admin, Instrument index, I/O list, IPDS, ISS, ILD, IWD, IID(Hookup), Cable Schedules, JB Schedules.
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- **PDMS** – Admin, Equipment, Piping, Structure, Cable Tray, Isodraft, Isometric.
- **SP3D** – Equipment and Furnishing, Piping, Drawing and Report.
- **PLC** (Programmable Logic Controllers) & **DCS** (Distributed Control System) - Programming languages such as **LD** (Ladder Diagram) & **FBD** (Functional Block Diagram).
- **Hands on Practical exposure** in brands as **Siemens, AB** (Allen Bradley), **ABB** (Asea Brown Boveri), **Honeywell, Schneider, GE-Fanuc, Keyence, Omron, Messung, Mitsubishi, Delta** and **B&R**.
- **SCADA** (Supervisory Control & Data Acquisition) – Screen designing, PLC interface, Data collection & storage.
- **HMI** (Human Machine Interface) - Screen designing, PLC interface, DCS interface.
- **PAC** (Programmable Automation Controller) – X, Y axis Robotic Control using Servo motors & drives.
- **VFD** (Variable Frequency Drive) Installation, Commissioning and Troubleshooting.
- **Pneumatics, Field Instruments** (Control Valve, Sensors, Level Transmitters, Flow Transmitters, Temperature Transmitters, Pressure Switches) & **Panel wiring**.
- Interfacing between **PLC & GSM** modem to communicate with mobile device.
- Develop program in structure text (**ST**), continuous flow chart (**CFC**).
- **Troubleshooting** – PLC & DCS programming.
 - Control Panel (Power wiring & Control wiring).
- Router and Switches configuration.

ACADEMIC PROJECT: -

1. Project Title: Realization of SCADA for PLC Based Control System.

Description: X20CP3586 PLC based B&R (Bernecker & Rainer). Control System is planned to be commissioned for the control and monitoring of the field commands and measurements for testing of cryogenic rocket engine and stage. The Hot-Standby PLC shall control the remote I/O nodes. The capacity of the system in Main & Redundant configuration is DO: 2048; DI: 148; AI: 128; AO: 48.

2. Project Title: Efficient Multi-Dimensional Maximum Power Tracking and Control of Solar Cells.

Description: Maximizing power output from a solar system is desirable to increase efficiency. It has been estimated that the yield from solar panels can be increased by 30 to 60% by utilizing a tracking system. The light dependent sensor (LDR) had been used to sense the intensity of light and the data to the microcontroller. So that it will rotate to the direction where it will get maximum intensity of light.

JOURNAL PUBLICATION: -

Project Title: Realization of SCADA for PLC Based Control System.

Journal: IJARTET, Volume II, Special Issue XV, February 2015.

ISSN 2394-3777 (Print).

ISSN 2394-3785 (Online).

ACHIEVEMENTS: -

- Certified from ISRO Propulsion Complex (IPRC), Mahendragiri for doing a project work in “Cyro Test Instrumentation Systems” from Sep 2014 to April 2015.
 - Certificate of Excellence in International Conference on Research Vogues in Information & Communication Technologies 2015 for paper presented “Realization of SCADA for PLC based control system” at DMI Engineering College, Aralvaimozhi conducted on 27th February 2015.
 - Third positions in Anna University Zonal Tournament Football match in 2012-13.
 - Runners in Anna University Inter Zonal Tournament Football match in 2010-11.
 - Winners in Anna University Zonal Tournament Football match in 2010-11.
 - Winners in circuit debugging at “Sherofinix’12” held at Idhaya Engineering College in 2012-13.
 - Secured 86% in Maharashtra State Certificate in Information Technology (MS-CIT) in July 2009.
 - Involved in National Service Scheme in College.
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EDUCATIONAL QUALIFICATIONS: -

1. **M.E AE** from Loyola Institute of Technology and Science, Loyola Nagar, Thovalai, Tamil Nadu under Anna University Chennai with 7(CGPA) and year of passing 2015.
2. **B.E ECE** from Dr. Paul's Engineering College, Villupuram, Tamil Nadu under Anna University Chennai with 5.9(CGPA) and year of passing 2013.
3. **HSC** from Abhinav Vidyalay Junior College, Mumbai, Maharashtra under Maharashtra State Board with 49.67% and year of passing 2009.
4. **SSC** from ST. Theresa Convent School, Mumbai, Maharashtra under Maharashtra State Board with 62.46% and year of passing 2007.

PERSONAL PROFILE: -

Date of Birth	: 25-11-1991.
Passport Number	: M8015209.
NED Pass Number	: OF01/0428(R).
Card NO	: 801099893.
Language Known	: English, Tamil, Hindi, Malayalam, Marathi.
Hobbies	: Playing Football, Coin Collection.

DECLARATION: -

I hereby declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date:

Place:

K. MERLIN SEELAN
