

Career Objective:

Leverage my current competencies and my dedication to hard work in a role where I can add value using my education, knowledge and experience which will offer professional growth while being innovative and resourceful.

Academic Details:

- Bachelors of Technology in **Electronics and Instrumentation** Passed out with first class (April 2012).
- Pursuing Masters of Business Administration in **Operations and Human Resource Management Programme**.

Work Experience:

5 years of experience involving in Erection, Testing, Commissioning, Planning & Preparing Maintenance Strategies, Designing Evaluation Programs, Work Scheduling, Diagnosing Breakdown Issues, Client Liaison, Negotiations and Coordinating in the development of Instruments and Control Systems in **Petrochemical, Chemical and Power Plant Industries**.

Key Skills:

Project Management -Significant exposure in handling full project life cycle and successfully completing projects within the timeframe assigned.

Maintenance Management- Maintenance of facilities and equipment in good working condition thus by increasing the operational efficiency of plant facilities and contributes to revenue by reducing the operating costs and increasing the effectiveness of production.

Organizational Experience:

Organization : Green Star Fertilizers (Southern Petrochemical Industries Limited)

Industry type : Petrochemical & Fertilizers

Duration : 26 mar 2014 to till date

Designation : Assistant Manager-Projects (Instrumentation)

On Going Projects:

Ammonia Plant DCS upgradation:

- Involving in upgrading of DCS Yokogawa centum XL to Yokogawa Centum VP R6.03 and August PLC to Prosafe-RS R3 in Ammonia Plant.
- Complete the necessary documentation as required for client approval and preparing Commissioning Method Statement, Testing & Commissioning Inspection Report & Check List for Approval with Client.
- Attended in client meetings, prepared scope of work, proposed creative solutions to resolve conflicts and performed cost analysis and financial engineering to ensure project feasibility.

Projects Completed:

Phosphoric Acid Plant 500MTD revamp:

Patterson Gnanasamy | +91-9500649490 | e-mail: pattersonsfj@gmail.com | Skype id: Patterson Suresh

- Involved in the revamp of Phosphoric Acid Plant production taking role of DCS and Field instruments erection, commissioning as per P&ID and successful completion of the project within the scheduled period.
- Conversant with preparation, verification, identification and implementation of the technical queries in loop diagrams, data sheets, instrument index, I/O schedules interconnection diagrams, Marshalling cabinet, Junction box and Hook up diagrams.
- Successfully commissioned all conveyor Instruments, 120ton rock weigher and 120ton weighbridge for handling gypsum.

Sulfuric Acid Plant DCS conversion:

- Involved in the erection and commissioning work of Distributed Control System in **Sulphuric acid plant** from pneumatic control system and handling the complete technical evaluations along with relay cabinets and various field instruments.
- All the pneumatic field instruments were replaced with electronic providing Emerson Delta V processor for control room operations.

Naphtha Handling Facility:

- Successfully commissioned Naphtha Handling terminal near harbour site providing explosion proof instruments for monitoring and controlling hazardous areas as per zone classification for safety operations.

Maintenance:

- Worked in **Ammonia plant, Sulfuric acid plant, Phosphoric acid plant and Steam turbine power plant**, visiting control room for any problem and distributing them among the Technicians for resolving it on priority.
- Managing the Manpower planning and estimation, developing failure analysis reports (FAR) and recommendations to avoid reoccurrence.
- Inspection and maintenance of instrumentation equipment in hazardous areas, preparing various progress reports, ISO documentation records and PM task reports.
- Carried out daily Routine, corrective, breakdown and condition based maintenance of all type of field process instruments in accordance with the requirements of the planned maintenance system.
- Involved in the testing of Logical Sequence, interlocks in Start-up and Shutdown based on Cause and Effect diagram.
- Involved in Annual Shutdown activities undergoing all instruments maintenance providing smooth and reliable operations for plant process.
- Implementing knowledge of Permit System, Safety procedures, Tools, Process and Technological advancement in instrumentation field.
- Strong problem solving skills and technical skill enables effective solutions that positively impact operations satisfaction and operational costs.
- Deft in improving efficiency of automation & control using available resources & by searching/ installing suitable instruments as per requirement
- Planning and maintaining necessary spares required for plant maintenance, emergency maintenance and turn around maintenance by raising purchase requisition and following it with purchase department and material vendor for timely arrival of the spares.
- Identifying the outdated technologies in plant process and replacing it with latest once by proper planning thereby improving the productivity.

Patterson Gnanasamy | +91-9500649490 | e-mail: pattersonsfj@gmail.com | Skype id: Patterson Suresh

Operations:

Steam Turbine Power Plant:

- Experience in operation of 6 MW **Steam Turbine power plant** with controlling various parameters for plant stability, efficiency and reliability.
- Participated in identifying and implementing new operational tools/processes for improved efficiency and escalated technical issues during shutdown and coordinates with other teams to resolve problems for providing stable operations.

Organization : Sesa Sterlite Limited (Sterlite Copper)

Industry type : Chemical & Refinery

Duration : 04 mar 2013 to 24 mar 2014

Designation : Graduate Apprenticeship

Maintenance:

- Worked in **Sulphuric acid** plant preparing maintenance activities and services schedules and conducting regular calibrations to ensure the performance of equipment's for smooth operations.
- Worked in Project design, Programming, Preparing I/O Point, and BOM for Process Plant Automation Control System.
- Handled online Maintenance of continuous Process Plant Instruments, Fault Diagnosis, Troubleshooting of equipment's, Smart, Electronic & Pneumatic Instruments as per the set plans of Standard Safety Procedures.
- Implementation of 5s activities and carrying out the preventive maintenance activities as per schedule.
- Planning, scoping, estimation, orders required materials spares and equipment tracking & implementation of shutdown job plans within pre-set budgets.
- Designing and Implementation of New control Loops as per Process Requirements for reliable operations.
- Executing Preventive Maintenance for field instruments and carrying out of shutdown preparation, data collection and condition monitoring duties as assigned.
- As a Safety Steward continuously monitored and received feedback from field technicians about the safety issues involved in the work place and mitigated the associated risks by discussing with plant safety personnel.

Instruments Exposed:

- Pressure based Pressure Transmitter, Pressure Switches, and Pressure Gauges.
- Temperature based RTD, Thermocouple, Temperature Switch, Thermistor, Pyrometer, and Temperature Gauges.
- Level based Microwave, Ultrasonic, Radar, Level switch, Level troll, Pad type pressure transmitters, 3D Level Sensors etc.,
- Flow based Various types of flow meters like Anubar, Orifice, Venturi, Magnetic flow meter, Mass flow meter, Ultrasonic type of flow meters, Vortex flow meter etc.,
- Working knowledge and troubleshooting experience in the Governor Control System (Trisen and Woodward), Bently Nevada vibration monitoring system and Woodward Peak 150 Speed controller.
- Carrying out gamut of operations such as Dismantling, assembling, Servicing and Calibration of control valves and dampers of different manufacturer namely Fisher, Honeywell, ILP, Masoneilan, Valtek, Koso, Elomatic etc. (entire control of units start-up, shutdown, etc.). ,
- Experience in handling SDBT, SKYD, SDBS, SLPC, US1000 and YS1700, Yokogawa power distributors, Yokogawa recorder unit, alarm units, temperature controller and electronic controller.

- Experience in handling Positioners (Pneumatic, Electro-Pneumatic, Smart), SOV, Limit Switches, Schenck weigh feeder , ItoP converter ,Avery(T301) weigh bridge, Load cell, Speed measuring proximity sensors, Trip valve, Transfer Valve, lock up valve and leakage detectors.
- Experienced in calibration and troubleshooting of analysers like SO2, O2, H2, CH4, CO2, NO, NOX, NH3, NO2, Dust, PH, Concentration of different manufactures like Maihak(Sick), Yokogawa, Sensitron, Emerson(Rosemount), Drager, Met One Instruments etc.,
- Experienced in Troubleshooting, Hardware Configuration, Graphics and Engineering Configuration of PLC (Siemens Simatic S7, August, Honeywell 620 logic) and DCS [Yokogawa Centum XL and CS 3000, Emerson Delta V 300-(10.3.4i&10.3.5i)].
- Preparation & Reviewing of drawings/documents like P&ID's, Ladder logic, Sequence table, Interlock block Diagram, Control loop diagram, Instrument index, I/O list, Loop diagrams, Cable tray layout, Junction box wiring diagram, Control circuit diagrams, Cable schedule and Hook up diagrams .
- Installation, Commissioning, Troubleshooting, Servicing and Calibration of the field instruments make like Emerson, Rosemount, ABB, Endress & Hauser, Bently Nevada, Honeywell, Yokogawa, Vega, Siemens etc.,
- Experience of handling instruments in Boilers, Turbine Instrumentation, High Pressure Compressor Instrumentation, Vessel, Scrubbers, Heat Exchanger, Re-boiler, Converters, Horton sphere storage tanks for Ammonia, Anti surge controls, Instrument Air Compressor, Drier and High pressure vessel control system.
- Experience in handling test instruments like Hart & Brain Communicator of Model 275, 375 &475 Communicator , Masibus (TCS 4070 and TCS 4050M) portable controller, Unical(TC and RTD), Dead weight tester, U-tube manometer,TK3 vibration calibration and High Precision mV, mA source and DC power supply.
- Hands of experience in management planning software's like SAP R3Module, MS Outlook, Pigeon, ERP and Internet applications.

Achievements:

- Appreciation reward of hardworking during Ammonia Plant shutdown activities during Turnaround-2016.
- Completed International Certification in Business English conducted by University of Cambridge.
- Completed First Aid class in St. Johns Ambulance, Fire Prevention and Fire Fighting (FPPF).
- Completed value added course on Piping Engineering Design& Stress Analysis Zentech Engineering and Consultancies.

I believe that my unique combination of skills would provide me an opportunity to be associated with your esteemed organization for my future growth and career Development.

Personal Details:

Address : 48B/12, Zion nagar, Ambai road, Melapalayam post,
Tirunelveli, TamilNadu, India

Email id : pattersonsfj@gmail.com

Mobile : +91- 9500649490

Skype Id : Patterson Suresh

Date of birth : 8th December 1990

Passport No : M1507372

Languages Known : English, Tamil, Hindi (Basic)

Declaration:

I hereby declare that all the above information are true and correct to best of my Knowledge.

Patterson Gnanasamy | +91-9500649490 | e-mail: pattersonsfj@gmail.com | Skype id: Patterson Suresh