

PAVAN KUMAR BHARTI

Instrumentation and Control Professional

+91-9592901809

pavankumarbharti51210@gmail.com

CAREER OBJECTIVE

To work in a globally competitive environment on challenging assignments that shall yield the twin benefits of job satisfaction and a steady-paced professional growth.

EDUCATIONAL QUALIFICATIONS

Course	Board/University	School/College	Year	Percentage/CGPA
B. Tech Instrumentation And Control Engineering	Dr. B. R. Ambedkar National Institute Of Technology, Jalandhar	National Institute Of Technology, Jalandhar	2020	7.22 CGPA
Intermediate	U.P. Board	J.D.S.V.M. Inter College, Allahabad	2016	87.80%
High School	U.P. Board	J.D.S.V.M. Inter College, Allahabad	2014	85.33%

EXPERIENCE

• IOL CHEMICALS AND PHARMACEUTICALS LIMITED:-

Instrumentation Engineer (July 2020 to Present)

Responsibility-

- Responsible for maintenance and modification of Iso Butyl Benzene Plant (Petrochemical), Mono Chloro Acetic Acid Plant, Acetyl Chloride Plant (Highly Corrosive Chemicals), IPCA Plant, Metformin Plant (Pharmaceutical) and Quality Control Instruments.
- Routine system analysis and problem troubleshooting of DCS, PLC and HMI system.
- Taking backup of ABB DCS as monthly bases.
- Develop and lead improvement of the Alarm Management System, DCS and Hardware safety trip systems and their integration into existing system.
- Provide Strategic development of instrument related working procedures and processes.
- Execute Engineering activities(Concept, Front end Engineering Development, Technical Study and Detailed Design
- Maintaining routine calibration, checking and PM of field instruments.
- Monitoring and Analysis of breakdowns.
- Providing, maintaining and customizing plant records and documentation as per GMP, USFDA, ISO guidelines.
- Spare balance and inventory control of instruments.
- Performs troubleshooting and diagnose defect of field instruments (flowmeters, Transmitters, RTD, Control valves and Controllers).
- Providing technical support and handling work force.
- Designing, Implementing and Commissioning of new control loops as per site requirement. Provide technical specifications and take follow up to the purchase team for new requirements.

Notable Task-

- Implemented SIL in Iso Butyl Benzene (Petrochemical) plant
- Involved in the HAZOP Study of Iso Butyl Benzene (Petrochemical) plant
- Improve the Availability of field instrument up to 3 times
- Reduced the MTTR by 4 times by implementing 5S in workshop and Laboratory
- Saved the cost up to 20Lakh Rupees in automation of IBAP plant
- Prepared automation strategy for the automation of pantoprazole plant which was manual plant
- Manage the project of Installation of Rockwell PLC and HMI system for temperature control of metformin crystallization stage
- Prepare the interlocks for temperature control for crystallization of Metformin.

SKILLS

- Working Knowledge of Software like MATLAB, MS-Office, Spreadsheets, Arduino, RS Logic 1000.
- Knowledge of programming Languages like Ladder Logic, Function Block Diagram, Assembly language of Microprocessor 8085, C++
- Knowledge of analysis tools like Why -Why, Fish Bone, CAPA, Six Sigma and Root Cause analysis
- Basic Knowledge of GMP, USFDA and ISO Guidelines
- Have ability to take charge of project independently and control project in man hour, Schedule and quality
- Ability to work in a team or individual basis, while being able to achieve targets
- Good interpersonal skills
- Highly motivated with an innovative and analytical mind

FIELD OF INTERESTS

- Process Automation
- Industrial Instrumentation
- Industry 4.0

PROJECTS

- Development of a model for measurement and acquisition of meteorological data for prediction of solar radiation. (NIT Jalandhar)
- Navigation and control of autonomous system for precision agriculture (CSIR-CSIO Chandigarh)
- Cost Effective Signal system for trains during foggy and rainy season (Innovesta-2017)

INTERSHIPS

- **Central Scientific instrument Organization - CSIR, Chandigarh (June 2019 to July 2019)**
Design and developed a system using canopy mapping for optimized spray of pesticides on the plants and this system contains mainly three functioning parts Navigation of robot by using Arduino and Ultrasonic sensor, Canopy Mapping and Electrostatic spraying system
- **Rail Coach Factory, Kapurthala (June 2018 to July 2018)**
Got an overview about numerous manufacturing process used in making of Railways Coach and inverting and non-inverting air conditioning system

POSITIONS OF RESPONSIBILITY

- Member of Safety team in IOL chemical and Pharmaceutical for Emergency Operation
- Member of Robotics Club R-TIST.
- Organizer and Event Management Head of 'INNOVESTA 2018' for Tech-Niti NIT Jalandhar.

ACHIEVEMENTS

- Got first rank in Safety Quiz-2021 organized by IOL Chemical and Pharmaceuticals Ltd.
- Secured Second rank in INVOVESTA-2017
- Got First rank in Vigyan Prashn Manch-2015
- Got second Rank in General Knowledge Competition on District Level

STRENGTHS

- Adaptability to New Technologies, Situations and Scenarios.
- Strong Quantitative and Analytical Skills.
- Team Player