

TAWSEEF AHMAD MIR

Instrumentation Engineer

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Location: Wuyun, Pampore Pulwama, J&K, India



PROFESSIONAL SUMMARY

Accomplished **Senior Instrumentation Engineer** with over **15 years of experience** in **automation, process control, and instrumentation systems** across **manufacturing, cement production, and renewable energy** sectors. Expertise in leading large-scale projects, optimizing **PLC, SCADA, DCS, and field instrumentation** to improve system efficiency, reduce operational costs, and drive **energy optimization**. Proven track record of delivering measurable results, including a **20% increase in efficiency** and a **15% reduction in costs**. Skilled in **team leadership, stakeholder management, and strategic planning**, with a strong focus on **sustainability** through the integration of **renewable energy solutions**. Adept at fostering innovation, mentoring teams, and ensuring compliance with safety and quality standards to drive operational excellence.

PROFESSIONAL EXPERIENCE

Senior Instrumentation Engineer - Khyber Cements, Srinagar, J&K, India

January 2014 – Present

- **Leadership & Project Management:** Lead a team of 15+ engineers and technicians in the **design, implementation, and optimization** of advanced **instrumentation and automation systems** for the cement manufacturing process. Oversaw projects from conception to completion, delivering them on time and within budget.
- **Strategic Planning:** Developed long-term automation strategies to streamline production processes, enhance efficiency, and reduce operational costs. Worked closely with senior management to align automation initiatives with business objectives and sustainability goals.
- **Process Optimization:** Spearheaded continuous improvement initiatives that resulted in a **20% reduction in production downtime** and a **15% increase in process efficiency** through the optimization of **PLC, SCADA, and DCS systems**.
- **Project Leadership in Renewable Energy:** Led the **design and implementation** of a **Solar Light Tracking System**, automating solar panel orientation for maximum energy absorption. This project not only enhanced energy efficiency but also contributed to the company's sustainability initiatives, achieving a **10% increase in renewable energy generation**.
- **Cross-Functional Collaboration:** Acted as the main point of contact between the instrumentation team and various departments (production, maintenance, and engineering). Facilitated communication between teams, ensuring that project goals and timelines were met.
- **Client & Vendor Management:** Managed relationships with external stakeholders including clients, suppliers, and contractors. Coordinated the selection and procurement of instrumentation equipment, ensuring high-quality, cost-effective solutions.
- **Mentoring & Team Development:** Mentored junior engineers and provided hands-on training in instrumentation systems, process control, and troubleshooting techniques. Created a knowledge-sharing culture, resulting in increased team productivity and efficiency.
- **Safety & Compliance:** Ensured all automation projects and instrumentation installations met industry standards and regulatory compliance, contributing to a **zero-accident safety record** over 5 years.

EDUCATION

SSM College of Engineering & Technology, Jammu & Kashmir

Bachelor's Degree in Engineering (Electronics & Communication)

Percentage/CGPA: 65%

Board of School Education, Jammu & Kashmir

Senior Secondary (10+2) – Non-Medical (PCM)

Percentage: 65%

Three-Year Diploma in Electronics & Communication

Percentage: 65%

PROJECTS

Solar Light Tracking System

- **Automation of Cement Production Process:** Led the design and deployment of an integrated automation solution for the entire cement production line, reducing energy consumption by **12%** and improving product consistency.
- Developed and implemented an automated system that adjusts the orientation of a solar panel to maximize sunlight exposure, optimizing energy charging efficiency.
- **SCADA System Overhaul:** Directed the successful **overhaul of the SCADA system** for real-time monitoring and control of plant processes, improving operational decision-making and reducing response times during critical situations.
- **Renewable Energy Integration:** Managed the integration of renewable energy systems, including the **solar light tracking system** and **solar power generation** at the plant, leading to enhanced sustainability and energy cost savings.
- Oversaw the **design, prototyping, testing, and deployment** phases, meeting energy optimization goals and improving system output.

CERTIFICATIONS & TRAINING

- **PLC and SCADA Systems Certification** (Siemens, Allen Bradley)
- **Industrial Instrumentation and Process Control**
- **ISO 9001:2015 Quality Management Systems Awareness**

TECHNICAL SKILLS

- **Instrumentation Systems:** Sensor calibration, transmitter and control systems, field instrumentation
- **Automation:** PLC (Siemens, Allen Bradley), SCADA, DCS, HMI, PLC programming
- **Project Management:** End-to-end project execution, resource planning, schedule management, risk mitigation
- **Process Optimization:** Troubleshooting, process control, efficiency improvements, automation strategy development
- **Renewable Energy Solutions:** Solar energy systems, light tracking system development, energy optimization
- **Software & Tools:** AutoCAD, MATLAB, MS Office Suite, Siemens TIA Portal, Allen Bradley RSLogix

PERSONAL DETAILS

- **Date of Birth:** 05-04-1991
- **Gender:** Male
- **Nationality:** Indian
- **Languages:** English, Hindi, Urdu & Kashmiri

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge.