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## **Atinderpal Sethi**

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**In quest of challenging opportunities in the domain of Electrical Automation & Instrumentation Engineering with a leading organization**

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### ***PROFILE***

A seasoned professional with **over 8 years of experience operation and maintenance of Electrical and Automation System.**

Currently associated with **Essar Steel India Limited as Manager.**

**Demonstrated skills in Implementation of Process Control Solutions like GE TMIEC AC2000/DC2000 DRIVES, UC2000, PLC Systems and Industrial Networking Technologies.**

Skilled in proactively resolving problems, ramping up project activities with on time deliverables and maximizing productivity.

Ability to support and sustain a positive work environment that fosters team performance. Possess proactive attitude, capability to think in & out of the box.

Competency in establishing performance-driven culture that ensures accountability and personal ownership, lead develop, coach, and motivating teams to achieve goals profitably.

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### ***SKILL SET***

#### ***Automation***

Gained Experience in Basic Engineering of PLC, GE IOS systems, configuring IOS through IOS configurator.

Rich Experience testing, setup, structuring and maintenance of HW\SW of IOS system and integration of control hardware with the Software Application.

Knowledge of Programming of PLC using Siemens Simatic S5, PCS7 (IEC Languages Ladder Logic, FBD).

Experience in Developing logic, interlock diagrams as per requirement of process operation.

Conversant with SIMATIC PCS7 tools and languages like Simatic Manager.

Possess clarity about the concepts of Siemens Simatic PCS 7, its system level architecture including client-server technology, network arrangement and setup.

Good knowledge of Basic communication protocols like ARCNET, Profibus and Ethernet.

Conversant with Data Historian facilities in automation software, events, tags management and data archiving.

Significant experience in Troubleshooting and preventive/ breakdown maintenance of Electrical & instrumentation In Roll Shop Grinding machines like AC & DC Motor, Siemens 840D, Simovert drive, TOSHIBA NC-PLC System (TUS 600), Techint provided Pomini machine, LISMAR UNIT (Eddy & UT Roll defect measurement) etc.

Extensive knowledge of Mill Automation Systems like AGC, Side Guide Control, Loopers, Roll Change Operation, PLC Programming, Finishing mill & Roll Shop Area of roll grinding machine.

#### ***Electrical & Instrumentation***

Experience in Technical Specification Preparation for various instruments for the measurement of Process Variables, and review of vendor drawing and data.

Familiar with the Installation procedures of various types of field instruments for process monitoring and control.

Supervision of Site activities for installation and commissioning of Field Instruments like Level Transmitters, Weight Systems, RTD, Thermocouple, Control Valves (Motorized, Pneumatic), Pressure & Flow Transmitters.

Experience in I/O testing, Loop configuration, Cable scheduling and Preparation of Termination drawings.

### ***PROFICIENCY MATRIX***

#### ***Operations & Maintenance***

Identifying areas of obstruction / breakdowns and taking steps to rectify the equipments through application of troubleshooting tools.

Scheduling and planning predictive, preventive maintenance for process plants, and root cause analysis.  
Monitoring and implementing maintenance systems.

### **Technical Support**

Implementing various modifications and checkpoints to reduce breakdown.

Executing customer centric operations by understanding user's problem by providing troubleshooting and giving support towards maintenance of systems.

### **HOT STRIP MILL (Electrical)**

**NOV 2009 – Till Date.**

Worked As shift person, Carrying out Trouble Shooting, Reduction of Breakdowns, Maximum Availability of Equipment, Planning And Executing Time And Condition Based Preventive Maintenance, Equipment Behavioural Analysis & Suggestion of Improvements, Fulfilment of All Safety Measures.

### **Presently working as Manager (Finishing mill,Coil Box& Roll shop Area)**

#### **Current Role:-**

Area Engineer for Finishing mill,Coil Box & Roll shop roll grinding machines Automation (Level-1 & Instrumentation). That includes complete Running, Preventive Maintenance, Up-gradation, Enhancing up Time, Manpower & Material Planning.

#### **Major Responsibilities and achievements are:**

Accountable for Maximum Equipment Availability of Automation systems through Preventive & Predictive Maintenance, Inspection & Corrective actions. Prepared maintenance plans/schedules for reducing E&A systems downtime.

Responsible for the maintenance of mainly GE Fanuc PLCs, GE Drives, and IOS.

Executed commissioning of field Instruments such as Transmitter, LPT, Encoders, Valves, Load Cells and Gauges etc.

Accountable for Maximum Equipment Availability of Automation systems through Preventive & Predictive Maintenance, Inspection & Corrective actions. Prepared maintenance plans/schedules for reducing process instruments, PLCs & control systems downtime to minimum for ensuring smooth production as carrying out condition monitoring.

Played an important role in scheduling and planning predictive, preventive and breakdown maintenance jobs with key focus on spares availability and root cause analysis.

Accountable for SAP PM Module implementation for automation department and maintaining of important documentations and latest software Backups.

Optimized rolling parameters based on operations / productions requirements.

Reduction of Roll Change time by 20 % with closely worked with Operation & Mechanical team.

### **CAREER CONTOUR**

**Since NOV'09 with Essar Steel Limited – Hot Strip Mill, Hazira**

#### **Growth Path:**

Nov'09-Mar'11            Assistant Manager

Apr'11- Mar'15            Deputy Manager

Since Apr'15              Manager

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

Spearheading efforts across supervision maintenance and control programming of PLC, GE IOS systems, UC2000 for Hot Strip Mill in ESSAR.

Accountable for Interaction with the end-user/consultant, for preparation for basic design spec for logics, front end engineering document preparation etc.

Carrying out the checks and commissioning of process interlocks and operational logic of Hot Strip Mill. Supervision of Site Activities like Maintenance and operation of Field equipments.

Proactively identifying areas of obstruction\breakdown by using Failure/Breakdown Analysis Techniques like FMEA and Six Sigma projects.

#### **Key Highlights:**

Significant Exposure to Process Industry related to Rolling Technology (Hot strip Mill) and conversant of its Electrical and Automation Setup.

Experience in Troubleshooting of Control Schemes and its modification to integrate Control Hardware and System Software Application.

Active contribution to initiate and introduce New System/Methodology to enhance the Process so as to achieve better performance and utilization of the system.

Supervision of Site Activities, dealing with Contractor.

Also handled Routine Maintenance of Electrical Equipments, identifying possible area for any breakdown and its prevention.

Providing Technical Reports and documentation according to Company Standards.

Improving the plant efficiency, process optimization, and quality control with the help of 5S, FMEA & SIX SIGMA projects.

Gained Maintenance experience on SIEMENS S5 PLC/DRIVES.

### Major Projects

Title: Commissioning of Electrical and Automation System for ABB Robotic Arm for Marking Coils ABB

Description: Robotic Arm is used for Marking Hot Roll Coils on the surface as well as on the periphery

Role: Commissioning, Development of software interlocks for the system and maintenance of Electrical & automation system. Carried out the technical specification preparation, Software Development, network configuration, designing the UI in CIMPLICITY, defining the signals from DLAN+ network to Ethernet, commissioning of the system.

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### EDUCATION & CREDENTIALS

Exam	Year	University / Board	percentage
B-TECH (ECE)	2005-2009	Punjab technical university, Punjab.	68%
H.S.C	2003-2005	S.L.I.E.T	69%
Matric	2002-2003	C.B.S.E	60%

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### Achievement in hobbies:

Won 7 times Essar Football tournament.

Won 6 times Essar Volleyball tournament.

Got award for Best sports men in HSM.

Won 2 times Essar Cricket league.

### PERSONAL DETAILS:

Current Address : F3/19, Nand Niketan, ESSAR Township, 23 Km Surat Hazira Road Hazira.

Permanent Address : Atinderpal Sethi House no.99 V.P.O-Alladinpur Dist Tarn Taran, Punjab

Date of Birth : 09th November 1987

Languages Known : English, Hindi, Gujarati and Punjabi

Marital status. : Married

