**Projjwal Ghosh**

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| Mobile 9051459504 | Landline 3325643724 | email [projjwalghosh@gmail.com](mailto:projjwalghosh@gmail.com) |

**EXECUTIVE SUMMARY**

**Automation Specialist** with years of progressive multidisciplinary experience in plant systems & LT power distribution maintenance & project engineering commissioning

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| * industry automation & drive | * preventive & predictive maintenance | * training |
| * inventory management | * project engineering commissioning | * Kaizen 5S WCM |
| * LT power system | * Safety Health Environment | * Siemens Industry |

**EDUCATIONAL CREDENTIAL**

* Bachelor’s Degree in Electronics & Telecommunication Engineering, **Indian Institute of Engineering Science and Technology**, Shibpur, West Bengal, 1998

**PROFESSIONAL EXPERIENCE**

**Sr. Engineer Controls, Vanderlande Industries Software Pvt. Ltd. (Toyota Industries), Maharashtra (Aug 2017 to date)**

* R&D, project engineering, service maintenance for material handling systems (reporting to General Manager Engineering)
* programming & diagnostic skill on Siemens S7-300/400/400-H PLC, Siemens SCADA & HMI, WinCC, WinCC flexible, Siemens G120 drive, diagnostic skill with different types of conveyors & material handling equipment, diagnostic of hydraulic & pneumatic system

**Regional Manager, Esskay Compuservices Pvt. Ltd. (training service provider, Siemens Ltd.), West Bengal (Feb 2015 to July 2017)**

* Siemens Industry high-end product training to project maintenance engineers/ Siemens internals for Sitrain, Siemens Ltd. (reporting to Service Head)
* programming & diagnostic skill on Siemens PCS 7, S7-300/400/400-H, Siemens SCADA & HMI, Siemens AC drives MM440, G120, G130, servo drive S120, 6RA80 DC drive
* providing technical support to plant personnel for root cause analysis of the problems, improving the uptime of machines & assembly facilities, major modification & improvements in existing equipment, new equipment installation & commissioning

**Senior Engineering Executive, Control Desk Solutions Pvt. Ltd. (Siemens system house), West Bengal, (Feb 2012- Feb 2015)**

* project engineering commissioning, breakdown preventive annual service maintenance of plant automation & drive systems
* programming & diagnostic skill on Siemens PCS 7, S7-300/400/400-H, Siemens SCADA & HMI, instrumentation calibration, programming & diagnostic with Siemens drives MM440, G120, S120, 6RA80, diagnostic skill with different types of conveyors, plant production processes, machineries & equipment, diagnostic of hydraulic & pneumatic system, LT switchgear & panels, root cause analysis of the problems, help plant personnel for improving the uptime of machines & assembly facilities, major modification & improvements in existing equipment, new equipment installation & commissioning, improve communication with all stake holders, skill improvement of maintenance operators, shut down activities planning & implementing it, coordination with supply chain management department
* build competency in the team, promote CI culture in the department, guide the technicians & engineers, identifying training needs of employees & plan accordingly
* recognized with letter of appreciation via e-mail from Head- Sinter Plant #1, Tata Steel Ltd., Jamshedpur for support in commissioning of 6000 I/O advanced DCS PCS 7 during 2014

**Senior Executive- Marketing (Design & Development), SATS Automation Pvt. Ltd. (Siemens system house), West Bengal, (Oct 2011- Jan 2012)**

* breakdown preventive annual service maintenance of plant automation & drive systems (reporting to Managing Director)
* programming & diagnostic skill on Siemens S7-300/400/400-H, Siemens HMI, instrumentation calibration, design or modify electrical circuit & PLC Programs, converting relay contactor based machine to PLC controlled machine, programming & diagnostic with Siemens drives MM440, G120, diagnostic skill with different types of plant production machineries, processes & equipment, diagnostic skill of hydraulic & pneumatic system, LT switchgear & panels, root cause analysis of the problems, help plant personnel for improving the uptime of machines & assembly facilities, new equipment installation & commissioning, skill improvement of maintenance operators
* attended breakdown service for 2500A 6RA70 DC drive in run at Bharat Sugar Mills, Gopalganj, Bihar

**Drive Trainer, Esskay Services (authorized training centre, Siemens Ltd.), West Bengal (Jan 2011- Sep 2011)**

* Siemens Industry drive technology product training to maintenance project engineer/ Siemens internals for Sitrain, Siemens Ltd. (reporting to Regional Manager)
* programming & diagnostic skill on Siemens S7-300/400/400-H, Siemens SCADA & HMI, Siemens AC drives MM440, G120
* providing technical support to plant personnel for root cause analysis of the problems & deploying the corrective actions, new equipment installation & commissioning

**Electrical & Electronics Engineer, Gillanders Arbuthnot & Company Ltd., Unit: GIS Cotton Mill, West Bengal (Dec 2009 – Nov 2010)**

* electrical & electronics maintenance of the entire production facility of 30TPD capacity yarn manufacturing plant(reporting to Manager, Engineering)
* diagnostic skill on Siemens S7-300, Allen Bradley PLC, Mitsubishi FX2N, Siemens & Allen Bradley HMI, instrumentation calibration, programming & diagnostic with Siemens drives MM440, Danfoss VLT series drives, Yasakawa drive V1000, diagnostic skill with different types of plant production machineries & equipment, pneumatic system, maintenance of all utility equipment like compressor, pump, generator etc. repair, maintenance & up keeping of LT electrical systems
* preparing preventive & predictive maintenance schedule & implementing it, root cause analysis of the problems & deploying the corrective actions, improving the uptime & utilization of machines & assembly facilities, shut down activities planning & implementing it, excellent spare parts planning, coordination with supply chain management department, hand-on exposure on Oracle E-Business Suite, guide the technicians & electricians, skill improvement of maintenance operators, tracking power consumption & identify & implement energy conservation projects, new equipment installation & commissioning
* restored a complicated electronic gearing mechanism based on multi-axis vector drive synchronization & saved straight 10 days of production for an unit

**Assistant Manager- Electronics , J. J. Spectrum Silk, Unit of J. J. Exporters Ltd., West Bengal (Jun 2009 – Dec 2009)**

* managing electronics maintenance for 2000 meters per day capacity silk fabric manufacturing unit(reporting to Factory Manager)
* diagnostic skill on OEM embedded controllers & drives, programming & diagnostic with Fuji, LS drives, instrumentation calibration, diagnostic skill with different types of plant production machineries & equipment, hydraulic & pneumatic system, root cause analysis of the problems & deploying the corrective actions, improving the uptime & utilization of machines & assembly
* major modification & improvements in existing equipment, made significant contribution in mass replacement of an AC drive saving Rs. 2 lakhs per annum

**Laboratory Assistant (Junior Engineer grade), Indian Institute of Carpet Technology (Under Ministry of Textile, Government of India), Uttar Pradesh (May 2004 – Jun 2009)**

* responsible for plant machinery, utility water & electricity for the entire facility
* diagnostic skill on Allen Bradley PLC & HMI, programming & diagnostic with Fuji, LS drives, instrumentation calibration, design or modify electrical circuit, developed an all electrical status monitoring system for registrar office, diagnostic skill with different types of plant production machineries & equipment, hydraulic presses, knowledge & diagnostic skill of hydraulic & pneumatic system, maintenance of all utility equipment like compressor, pump, generator etc. repair, maintenance & up keeping of LT electrical systems
* preparing preventive & predictive maintenance schedule & implementing it, root cause analysis of the problems & deploying the corrective actions, shut down activities planning & implementing it,. improve communication with all internal stake holders, coordination with supply chain management department
* excellent spare parts planning, developed an ASP web based application for utility inventory management, vendor development for critical spares, arranging external help from suppliers & contractors, supervision of contractor work
* build competency in the team, guide the technicians & electricians, team building in wage manpower
* major modification & improvements in existing equipment, executing minor & major CAPEX & OPEX projects, managed small up-gradation projects for LT power distribution increased availability, took lead role in blueprinting complete renovation of 500kVA existing LT power distribution
* new equipment installation & commissioning, headed installation commissioning of a whole yarn manufacturing plant supplied by Voltas/ LMW
* significantly contributed in campus wide WLAN implementation, developed Visual Basic application for a test instrument, & integrated office LAN to campus wide intercom for easy internet

**Electronics Engineer, GIS Cotton Mill Ltd., West Bengal (Nov 2002 – Nov 2003)**

* electronics maintenance of the entire production facility of 30TPD capacity yarn manufacturing plant(reporting to Chief Engineer)
* diagnostic skill on Siemens S7-300, Allen Bradley PLC, Mitsubishi FX2N, Siemens & Allen Bradley HMI, instrumentation calibration, programming & diagnostic with Siemens drives MM440, Danfoss VLT series drives, diagnostic skill with different types of plant production machineries, equipment, & LT systems panels
* preparing preventive & predictive maintenance schedule & implementing it, root cause analysis of the problems & deploying the corrective actions, improving the uptime & utilization of machines & assembly facilities, excellent spare parts planning, coordination with supply chain management department, skill improvement of maintenance operators
* new equipment installation & commissioning, senior team member for erection & commissioning of new plant machinery supplied by Truetzschler/ Trumac as a part of expansion project

**Engineer Electronics, Eastern Spinning Mills & Industries Ltd. (an A. V. Birla Enterprise), West Bengal**

**(May 2000 – Oct 2002)**

* electronics maintenance of 5TPD yarn manufacturing unit after successful completion of apprenticeship, shifted to the bigger unit of capacity 20TPD after an year with additional responsibility of helping electrical maintenance(reporting to General Manager, Engineering)
* diagnostic skill on Allen Bradley PLC & HMI, Mitsubishi FX2N, instrumentation calibration, programming & diagnostic with Fuji, LS drives, diagnostic of plant production machineries, equipment, LT systems panels, computerized PCB repairing service
* preparing preventive & predictive maintenance schedule & implementing it, root cause analysis of the problems & deploying the corrective actions, improving the uptime & utilization of machines & assembly facilities, maintaining good 5S in factory, excellent spare parts planning, coordination with supply chain management department, tracking power consumption & identify & implement energy conservation projects, guide the technicians & electricians

**Graduate Apprentice, Eastern Spinning Mills & Industries Ltd. (an A. V. Birla Enterprise), West Bengal (Dec 1998 – Nov 1999)**

* electrical & electronics maintenance of automatic cone winding machinery for 20TPD capacity yarn manufacturing unit(reporting to Senior Electronics Engineer)

**PROFESSIONAL DEVELOPMENT**

* Registered as PRINCE2® Practitioner by AXELOS (2014)
* Attended course on SINAMICS DC Master 6RA80 from Siemens Ltd. (2013)
* Undergone training modules for SIMATIC PCS 7 Basic & SINAMICS S120 by Siemens Ltd. (2012)
* Honours Diploma in Web-centric Computing from NIIT Ltd. (2001)

**PERSONAL DETAILS**

* **Date of Birth :** 5th Jul 1975
* **Permanent Address :** Flat No. B302, Samir Residency II, 25 BC Chatterjee St., Belgharia, Kolkata– 700056
* **Language Proficiency:** English, Hindi & Bengali
* **Nationality :** Indian

**Project Details**

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| **Project** | Renovation of 1.5 MTPA capacity sinter plant(Sinter Plant #1) |
| **Client** | Tata Steel Ltd., Jamshedpur |
| **Scope** | From conceptualization to SAT & final handover of 2 nos. sinter machines of total 1.5 MTPA capacity with common green mix & product circuit on PCS 7 platform(6000 I/O): 4 nos. redundant fault tolerant controllers from S7-400H family, cross controller data exchange, optical/ RS485 PROFIBUS for remote I/O & cross vendor intelligent DP slave over Y-coupler; 1 no. ES (Engineering Station), 1 set of redundant OS (Operator Station)/ MS (Maintenance Station) server, 6 nos. OS/ MS clients, 1 no. OS/ MS client/ OPC-DA server for ISA-95 Level 3 IT integration, 1 no. Process Historian/ Information Server for manufacturing intelligence, 1 set of redundant plant bus, 1 set of fault tolerant optical/electrical terminal bus on network adapter teaming & RSTP (Rapid Spanning Tree Protocol), Modbus TCP/IP for third party connectivity |
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| **Project** | New installation of 12MW thermal power plant |
| **Client** | Rashmi Metaliks Ltd., Kharagpur |
| **Scope** | Development, commissioning, & trial run of 12 MW thermal power plant fed by 4 no. waste heat recovery boilers on PCS 7 platform(1000 I/O): 1 no. S7-400H family controller, RS485 PROFIBUS for remote I/O, 1 no. ES, SIMATIC IPCs (Industrial PC) for 1 set of redundant OS server & 4 nos. OS clients with dual monitors, 1 set of fault tolerant combined plant bus & terminal bus on MRP (Media Redundancy Protocol) |
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| **Project** | New installation of 0.4 MTPA capacity sinter plant |
| **Client** | Neo Metaliks Ltd., Durgapur |
| **Scope** | Project closure of 0.4 MTPA annular sinter machine on STEP 7 & WinCC platform(1200 I/O): 1 no. S7-400H family controller, RS485 PROFIBUS for remote I/O & SINAMICS G120 drive, 1 no. ES/OS single station, 2 no. OS single stations, used in-house developed library |
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| **Project** | New installation of water treatment plant |
| **Client** | Voltas Ltd., Kolkata; end user Tata Steel Ltd., Kalinganagar, Odisha |
| **Scope** | Development/simulation testing for facility-wide water treatment plant with raw water treatment, drinking water treatment & soft water treatment on STEP 7 & WinCC platform(4000 I/O): 2 nos. S7-400H family controllers, RS485 PROFIBUS for remote I/O, 2 nos. ES/OS single stations, 4 nos. OS single stations, used in-house developed library |
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| **Project** | DC drive system for sinter plant nodulizing drums |
| **Client** | SAIL, Durgapur Steel Plant |
| **Scope** | Design/ engineering/ manufacturing/ FAT/ commissioning support to retrofit of 2 nos. 1200A, DC drives in hot redundant configuration for sinter plant #2 nodulizing drum on TIA portal & Sinamics platform: 1 no. S7-1200 family controller, 2 nos. 1200A DCM 6RA80 units as armature supply in master/ substitute master mode, 2 nos. 60A units as field supply in working/ standby mode, RS485 PROFIBUS communication to DCM units for extended features |
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| **Project** | 12-pulse AC drive system for sinter cooler fan(Sinter Plant #3) |
| **Client** | Tata Steel Ltd., Jamshedpur |
| **Scope** | Hardware FAT of 1000A 12-pulse AC drive system comprises of 2 nos. 500A G130 converters in 12-pulse parallel configuration |
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| **Project** | Retrofit of servo drive system at ITC Ltd., Kidderpore, Kolkata |
| **Client** | ITC Ltd., Kidderpore, Kolkata |
| **Scope** | Detail engineering, & commissioning of two-axis speed synchronous SINAMICS S120 servo drive system |
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| **Project** | Engine paint shop conveyor automation at Cummins India Ltd., Phaltan, Maharashtra |
| **Client** | Vinar Systems Pvt. Ltd., Kolkata; end user Cummins India Ltd., Phaltan, Maharashtra |
| **Scope** | Development & commissioning of paint shop conveyor automation system on STEP 7 & WinCC flexible platform (600 I/O): 1 no. S7-300 family controller, PROFINET for remote I/O, SIMAMICS G120 drive, & TP 177B 6” touch panel |