

RATNESH UPADHYAY

Civil Line, Allahabad

UP, India 211001

E-mail- rupadhyay.upadhyayme@gmail.com

Mo-8418864614, 7905791306



CAREER OBJECTIVE

- To work in a challenging and creative environment with committed and dedicated people in order to explore myself, to become a competent professional & realize my potential and dedicate my endeavor totally for betterment of the firm and society.

WORK EXPERIENCE

1. Professional Summary

1. Mott MacDonald Pvt. Ltd.
Allahabad

April 2018– present

SCADA Engineer Railway @ Dedicated Freight Corridor Corporation of India Ltd-East

- Providing a point of reference for all associated SCADA installation activities required for 400 KM and 180 RTUs for Power and signaling Systems for Dedicated Freight Corridor Corporation of India Ltd. (DFCCIL) – East at Allahabad
- Responsible for the design, supply, installation, testing & commissioning into service of a new Traction Power Centralized Management System (TPCMS) which will replace the existing, life expired SCADA systems and migrate to a single national platform.
- Effectively communicating with Chief Project Managers with DFCC East and prioritize the work to ensure project delivery requirements are satisfied.
- Responsible for the delivery of SCADA installation designs associated with this Network Rail at integrated Operation Control Centre (IOCC) project along with interface management with Electrical, Telecommunication and Signaling areas.
- Review of Contract Document for technical Scope of Works and preparation of compliance sheet and discussion with vendors
- Reviews and follow up in coordination with clients, vendors, for electrical schematics and protection related documents for new projects up to obtaining final approvals.
- Preparation, calculations and related SCADA project study for all Equipments whichever required and follow up with client engineer up to obtaining final approvals
- Fully Responsible for testing related work of Substation.
- Involve FAT & SAT activities as per guidelines given in Contract.
- Fully Responsible for Testing related work of Substation
- Review of Submitted Documents of Contractors along with letters attached regarding requisition for No Objection Approvals.
- Preparing Replying letters w.r.t submitted letters from contractor and client side.

- Erection of **Remote Terminal Units (RTUs)** along with associated accessories for supervision/monitoring Traction substations (TSS) and Power Supply Control posts SP(s), SSP(s), junction station, Crossing station, LC Gate, IMD, IMSD, and other locations.
- Erection of SCADA System hardware (HMI) along with associated equipment's at OCC including Computer Servers, work stations to be controlled and monitor the equipment's at TSSs, SSPs and SPs and train route services.
- Erection of Training Simulator Work station and Maintenance Work station at various depots to be monitor by SCADA.
- Erection of hardware likes, BMS, Storage devices, Voice recorders, access control , Line interface units, Sensors, Intelligent electronic devices, printers and LAN switches, Cables, etc. to facilitate connection /communication between equipment, RTUs and Centrally installed SCADA System at OCC including Interfacing / controlling equipment to connect Visual Display Unit of Rear Projection Screen (RPS) / Digital light processing (DLP), Visual Display Unit of Rear Projection Screen (RPS) / Digital light processing (DLP) unit to be tested & commissioned.
- Software to be configure for SCADA system including user licenses.
- Erection of all SCADA equipment as including RTUs and other equipment's at High voltage PSI (TSS, SSP, SP) another locations Junction Station, Crossing station, LC Gate along with provision of Sensors, Intruder detection system, Access control system at (PSI-TSS, SSP, and SP) Intelligent electronic devices, laying of cables, Solar panel, interconnections & interface with equipment to be tested & commissioned, monitored by SCADA system.
- System Acceptance Testing to be carried out of all SCADA controlled devices & Commissioned and monitored by SCADA System including OCC, junction Station, Crossing Station, LC Gate, PSI-TSS/SP/SSP etc.,
- Erection, testing expertise in SCADA Facilities for Traction Substations TSS, Sectionalizing Posts SP, Sub-Sectionalizing Posts SSPs, OCC, junction station, crossing station for DFCCIL.

2. Professional Summary

- Organization : **Daulat Ram Engineering Service Pvt. Ltd.** Bhopal (MP)
- Designation : **Sales & Service Engineer at DLW** Varanasi.
- Duration : 26 September, 2016 to 22 April 2018

Daulat Ram has a diversified range of products from **Traction Motors, Traction Alternators, Special AC & DC Motors, Generators, and Package Air Conditioners for Passenger Coaches and Locomotive Driver Cabs for Indian Railway.**

Responsibilities

- Participate to develop & introduced new product to the market and Analyze customers and market status to develop to the new opportunity.
- To coordinate between product and sales department for product issues.
- Installation, Testing and Commissioning of **Roof Mounted AC package HVAC** inside the driver cabin of diesel electric locomotive in WDP4D & WDG4D locomotive at DLW Varanasi.
- Testing & commissioning of **Traction Alternator-TA17** in WDP4D & WDG4D locomotive in DLW Varanasi.
- Testing & Commissioning of **Radiator Cooling Fan(RCF)** in WDP4D & WDG4D

locomotive

- Testing & Commissioning of **AUX Generator, Dynamic Brake Register, Dustbin Blower Motor** in WDP4D & WDG4D Locomotive in DLW Varanasi
- Conduct training and maintain track competitors product process and their market status.

3. Professional Summary

- Organization : **Synergy Systems & Solutions**, Faridabad (Haryana)
- Designation : **Project Engineer (SCADA-RTU)**
- Duration : 20 June, 2013 to 23 September 2016

Working Project's

- Project Name : **Traction Power Control** for **North Central Railway**, Allahabad (U P.)
- Section : MGS-ALD & ALD-PNK
- Team Members : 4

Responsibilities

- Execution of the project engineering involving **Installation, commissioning, testing and supervision of RTU control panel of substations and its implementation with SCADA** for any new site installation.
- **Software Installation, feeding database, graphics designing** for any new project and editing for running project.
- Weekly **maintenance report** and checked by Senior Section Engineer.
- Preparation of SCADA schematic diagram, I/O tags developments, Cable termination schedule etc.
- The client wanted to monitor electrical parameters such as voltage, current, Power Factor, MVA of its 132/25 KV Traction Sub Stations and Sectioning Post of Railways OHE. They also wanted continuous monitoring of Transformer's Taps and Alarms, Circuit-Breakers alarms, Catenary alarms.
- Equipped RTU as a controller on sub-stations. For controlling purpose of electricity flow we provide Breakers ON-OFF control in SCADA.
- Provided MMI for Traction Power Controllers, proper arrangement done with FEP, Servers.
- Made different reports of Alarms and Events using Crystal Reports tool using system database.
- Protocol Used: **IEC-60870-5-103, SPORT** (b/w Master and Slave station) and Baud Rate: 600 & 1200.
- Electronic data communication between elements like **RS-232, RS-485**.
- Knowledge in Expansion I/O racks through bus such as **ARC Net, CAN Bus**.
- Involve in troubleshooting of Communication failure of Sites by Loop back check, Loop check method and analyze noise in signal.
- Planning, Execution, Installation, Testing and Commissioning of Equipments used in RTU, TSS and SCADA control Panels. Maintenance of instruments, good exposure to engineering surveys & documentation, material take-offs and as-built drawings etc.
- Monitoring and Predictive maintenance of critical equipment and corrective actions to avoid breakdown.

- Involved in maintenance of RTU at substations, SCADA and Control panel at Remote Control Centre.

4. Professional Summary

- Organization : **M/s Adani Power Plant in Kota, Rajasthan** (with **M/s Star Electrical**)
- Designation : **Trainee Engineer in C & I department in CHP** (Coal Handling Plant)
- Duration : **22 July 2012 to 20 march 2013.**

Supervise the 1320 MW POWER PLANT green field projects in **Erection & Commissioning** in C & I & Electrical aspect and do it as per protocol and preparation or work report and documentation of commissioned Equipment.

ACADEMIC QUALIFICATION

- **B. Tech in 2008-2012** Batch in **Electronics and Communication** from Bharat Institute of Technology, Meerut, U.P. with aggregate **69.86 %** from UPTU, Lucknow.
- **12th class in 2007** in P.M.C Group from U.P.I.C, Varanasi, Uttar Pradesh with aggregate **64.2%** from U.P board, Allahabad.
- **10th class in 2005** from U.P.I.C, Varanasi Uttar Pradesh with aggregate **68.5%** from U.P board, Allahabad.
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TRAINING AND PROJECTS

- Undergone summer / Industrial training on “**GSM SYSTEM SURVEY**” from IDEA CELLULAR LIMITED in Varanasi.
- Major project on “**MIFARE SMART CARD TECHNOLOGY**”.
- Mini project on “**SOLAR PANEL BASED CHARGER**”.
- Mini project on “**AUTOMATIC TOLL TAX USING RFID**”.
- Attended two days workshop on ROBOTICS conducted by GRID BOTS at IIT, Roorkee.

PROFESSIONAL TRAINING ON INDUSTRIAL AUTOMATION

- Organization : **Maxx Automation Pvt.Ltd.**
- Duration : **March 2013 to June 2013.**
- Description : Got hands-on training in automation technologies and use of **SCADA, PLC, AutoCAD and Drives.**
- **PLCs:** (Modicon, Allen Bradley, Siemens, Omron & Mitsubishi) **Ladder & Logic** Development & Troubleshooting.
- **SCADA:** (Wonder ware's In Touch & RS View), Application Development and

communication b/w PLC and SCADA.

- Creating Application, Downloading / Uploading Program, Communication with PLC using HMI.
- **Motors/ Starters/ Control Circuits:** Induction Motors, Torque/ Speed characteristics, Star Delta Starters, DOL Starters, Reversing starters, interlocking circuits, panel Wiring.

LANGUAGE TRAINING

- C at HP Training Center, Meerut.
- **Embedded systems** at HP Training Center, Meerut.
- **Auto CAD2008.**

TECHNICAL KNOWLEGDE

- Operating System: Window XP, Window7.
- Knowledge of communication Protocols TCP/IP, IEC 60870-5-101, SPORT, MODBUS.
- Electronic data communication between elements like RS232, RS422, RS485.
- Network/ Protocols: LAN/WAN, TCP/IP.
- Basic knowledge of Diesel Electric Locomotive WDP4D & WDG4D.

EXTRA CURRICULAR ACTIVITIES

- First prize in Creative Writing at Techkriti BIT, Meerut.
- Successfully delivered seminar on “**Induction Motor**” in First Year.
- Successfully delivered seminar on “**Touch Screen Technology**” in Second Year.
- Participated in the **Rise of Machines** held at Dr. K.N Modi Foundation, Modinagar.
- Successfully delivered seminar on “**Wireless Communication**” in Third Year.

PERSONAL DETAILS

- **Nationality:** Indian
- **Date of Birth:** 15 July, 1990.
- **Sex:** Male
- **Fathers Name:** Ram Mohan Upadhyay
- **Occupation:** Agriculture
- **Mothers Name:** Manju Upadhyay
- **Occupation:** House wife
- **Correspondence Address:** Sundarpur ,Varanasi-211004
- **Passport:** Available (K3468032)

DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge.

Place: - Allahabad (UP)

Date: -

(RATNESH UPADHYAY)