

## Address

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## Carrer Objective:

- To work in an environment that will enable me to enhance and refine my knowledge of the field by utilizing my technical skills and abilities for the growth of the company and my individual.

## WORK EXPERIENCE

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### **Torrent Power Ltd - Assistant Manager (Smart Grid Projects)**

**Ahmedabad - Start date - 11<sup>th</sup> May, 2015**

#### **Advanced Distribution Management System (ADMS-SCADA)**

- ❖ Planning & preparation of the technical requirements-RFP for the common ADMS platform for Ahmedabad, Surat and Dahej distribution area.
- ❖ Defining the IT architecture and OT integration methodology for the overall solution
- ❖ Offer evaluation and PoC/pilot implementation : OSI (Monarch), Siemens (Spectrum Power) and GE (E-terra)
- ❖ Upgradation of the existing Outage Management System (OMS) & Field Force Automation (FFA)
- ❖ Phase wise implementation of the platform and scalability

#### **Advanced Metering Infrastructure (AMI)**

- ❖ Identification of Communication technologies & finalizing the implementation roadmap with – Hybrid Model
- ❖ Evaluation of RF mesh technologies and respective offering from different suppliers.
- ❖ Planning & preparation of the technical requirements-RFP and Business Use-cases.
- ❖ Smart Meter specification preparation and evaluation of suppliers : Genus, Iskraemeco & TechOVN
- ❖ Field survey, PoC/pilot and capability testing of RF devices, HES and respective NMS and use-cases
  - Smart Metering and Retrofitting
  - Distribution Automation, Condition Monitoring – DT & FSP and Streetlight control
  - Scalability for Torrent Gas distribution

#### **Automatic Meter Reading Project (AMR/AMI)**

- ❖ Technical & commercial planning for Automatic Meter reading for all High Value customers and Distributed generating units of Torrent Power, Ahmedabad
- ❖ Preparation and testing of AMR Modem firmware for all Secure, L&T and Genus make Non-DLMS and DLMS type meters with MVPN and VPN wireless network of network service provider
- ❖ Installation, commissioning and testing of 1700 nos of AMR Modems
- ❖ Installation/Configuration/customization of Meter data acquisition system with Web-server application, Mobile application, SQL database, data conversion tools and data monitoring systems
- ❖ Integration of Meter data acquisition system with other enterprise software – SAP, OMS (Outage Management System), Customer portal.
- ❖ Implementation of fully automatic billing process with 100% data availability through AMR, real time interruption and power quality management for all High value customers of Torrent Power, Ahmedabad

## Distribution Automation-SCADA

- ❖ Technical & commercial planning for Distribution Automation with SCADA project for Torrent Power, Ahmedabad
- ❖ Acceptance/Prototype testing and Pre-dispatch inspection of 11kV Automated Switchgears, FRTU, Modem, Protection relay, Compact Substation, APFC panel, Battery backup system and 11kV metering panel.
- ❖ Technical Specification preparation of all above listed components for Distribution automation
- ❖ Offer evaluation and Pre-dispatch and FAT inspection of above listed Materials
- ❖ Execution of Distribution Automation project :
  - Installation, Commissioning & Testing of Automated switchgears with all communication, operation and IT technology prospective
  - Configuration and Programming of RTU & SCADA engineering for monitoring and control of Distribution Automation installations to have improve reliability and visibility of Distribution network
  - Maintenance and troubleshooting for all non-conformance for Distribution Automation

## Smart Grid Roadmap

- ❖ Preparation of roadmap for Smart technology implementation for Torrent Power Distribution licenses.
- ❖ Defining the business use-cases and benefits for Smart grid projects based on operational & functional challenges and latest advancement in technologies.
  - Centralized Availability Based Tariff system (ABT)
  - Meter data Management System (MDMS)
  - Centralized command & control center

## Torrent Power Ltd - Executive (Automation)

**Ahmedabad - Start date / End date - 23<sup>rd</sup> August, 2012 to 11<sup>th</sup> May, 2015**

- ❖ Planning & Execution work for Substation Automation monitoring and control activities :
  - New 33kV Substations (Breaker, Relay, Transformer, Battery backup system, Capacitor banks)
  - Old 66kV Substations. (Breaker, Relay, Transformer, Battery backup system, NIFPS)
  - New 132kV GIS Substations. (Breaker, Relay, Transformer, Battery backup system, Islanding scheme, Energy import/export, NIFPS )
- ❖ Maintenance & troubleshooting for Substation Automation for 33kV, 66kV & 132kV Substations
- ❖ Relay Retrofitting work for old (Jyoti, ABB and CG make) 11kV panels.
- ❖ Monthly & Annual performance analysis for Transmission network.

## TECHINICAL SKILLS

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- ❖ Programming and configuration of Citect SCADA server.
- ❖ Installation/Configuration/customization of Meter data acquisition system with Web-server application, SQL database, data conversion tools and data monitoring systems.
- ❖ Basic understanding of Machine Learning algorithms -Linear & Logistic Regression, Neural network and its implementation over Python with use of open source platforms like anaconda, Tensorflow, Numpy, Pandas, Scikit-learn.
- ❖ Programming and configuration of Intelligent Electronics Devices,
  - RTU (Remote Terminal Unit) of Wago, Phoenix, Siemens, Lucy make.
  - Cellular Modems of Four-faith, Maestro, Nomus, Pro-route, Robustel make.
  - Protection relays of Siemens, Ashida, C&S make.
  - Other PLCs and IoT base devices.
- ❖ Good Analytical skill, quest for knowledge on New Technologies
- ❖ Knowledge of Testing and Repairing of 11kV Switchgears
- ❖ Programming Languages : C , C++

- ❖ Electric Control Using Programmable Logic Controller(PLC)
- ❖ Assembly level Programming : 8085(Keil Microvision), PIC microcontrollers
- ❖ Power system Analysis with MATLAB.
- ❖ Siemens SIPROTEC relay programming with DIGSI software
- ❖ MS Office with Developer Mode

## OTHER CERTIFICATIONS

Name of Course	Month of Completion	Offered by	Platform Used
Machine Learning	Jan-2022	Stanford University	Coursera
Introduction to Cyber Security	Feb-2022	SkillUP	Simplilearn

## ACADEMIC QUALIFICATIONS

EXAM / DEGREE	YEAR OF PASSING	NAME OF INSTITUTE	UNIVERSITY / BOARD	CLASS	SEMESTER	RESULT	
						SPI	CPI
BE (ELECTRICAL)	2012	G.H. Patel College Of Engineering and Technology, V.V. Nagar	GTU (Gujarat Technological University)	Distinction CGPA-7.06	I	6.73	6.73
					II	7.13	6.93
					III	6.1	6.66
					IV	7.27	6.81
					V	6.73	6.79
					VI	7.17	6.86
					VII	7.43	6.94
					VII	7.97	7.06
HSC (12th)	2008	L.P.Savani Vidhyabhavan, Surat	GSHEB	Distinction	76.50%		
SSC (10th)	2006	L.P.Savani Vidhyabhavan, Surat	GSEB	Distinction	91.00%		

## PROJECT DETAILS

Project Title	Semester	Platform Used	Brief Description
DC Charger	I	Power Electronics	It will convert 230V AC supply into continuous 5V DC supply.
Online Transformer Monitoring & Control Using Microprocessor	VII	PIC18F452 Microcontroller, C , Multisim, Uniboard,	Real time Monitor Temperature, Voltage and Current of the Transformer and displayed on the LCD Screen.
			Overload, Under voltage and Temperature trip function integrated for Transformer Protection

# PERSONAL PROFILE

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Name	Jay Dineshbhai Patel
Contact Number	8866300650, 8320190530,
E-mail	<a href="mailto:pateljay@gmail.com">pateljay@gmail.com</a>
Date Of Birth	27 <sup>th</sup> October, 1990
Permanent Address	C-1101, Casa Elite, S.G.Highway, Nr. Nirma College, Chharodi, Ahmedabad-382481
Alternate Address	9, Krishna-row-house, Bh. Gangeshwar Mahadev, L.P.Savani road, Adajan, Surat-395009
Known Languages	English, Hindi, Gujarati
Hobbies	Swimming, Badminton, Watching Movies, Music, Net-Surfing

JAY D  
PATEL

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