

# CURRICULUM VITAE

**Name :** Rajat Thapliyal  
**Address:** Nathuawala, Dehradun,  
Uttarakhand, India.

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## Career Objective:

Hardworking and reliable **Senior Project Engineer (Designing, Planning & Execution)** with an exceptional record of customer satisfaction. Profound depth and breadth of experience with Electrical work like 33/11KV Substation, MW Solar Power and Micro hydro power projects. Adept at managing simultaneous multiple projects under budget and within deadline. Specialize in the day-to-day management of a projects electrical operations and is able to deliver high quality, cost effective solutions that will exceed a client's expectations.

## Educational Background:

- **B.TECH** (Electrical and Electronics) Engineering 73%, **2nd rank** from **Uttarakhand Technical University** in 2013.
- **Energy Manager/Auditor-** Pursuing National certification examination from **B.E.E** in 2017.

## Core Competencies:

- Having **5.2 Years** of work experience in Management, Designing, Operations, Planning and Commissioning of various **Solar Power Plant Projects up to 51MWp, Micro Hydro Power Projects, L.T - H.T Electrical Control Panels, A.C -D.C & L.T- H.T Works, Generators** and Switchyard Automation Work, 33/11KV Substation Project.
- Experience of various Erection of **33/11kv** Substation Switchyard and transmission Lines, Switchyard.
- **51MWp** Solar Power Plant Project which includes both **Ground Mounted & Roof Top Type Projects, On Grid, Off Grid & Hybrid Projects.**
- Excellent knowledge of designing Single Line diagram, **Voltage Drop Calculation** Power Cables, Ear thing measurement, Transformer Testing up to **10MVA** ratings.
- **Knowledge designing of Electrical Switchgears, Inverters Strings designing, D.C Cables Designing & Plant Installation.**
- Experience of Installation & **15MWp Micro Hydro Power Projects**, Panels Designing, Generator, E.L.C, Turbines, Transformer commissioning, Protection Relays, A.V.R., A.P.F.R, Thyristors, Ballast Tank design, Cable Termination, Cable Laying, transmission lines, Single Pole-Double poles H.T Work.
- Experience Commissioning of C.T, P.T 10MVA Transformer , Relays , Breaker, Isolator, Gantry, **H.T Pole**, Inverter, Street Lights, **High Mast, Transformers** with R.T.C Panels, D.G Set, L.T and H.T Works, Control Wiring, Feeder Panels, Street Light Panels.
- Understanding designing of Electrical, Civil, Mechanical Drawings, S.L.D, Planning of Projects, Array layout, Ear thing Drawings, **Shadow Analysis**, B.O.Q, Project Planning & Coordination.
- Experience of **Hydro & Solar** Projects work in different location **Uttrakhand, North East, Chandigarh, Nepal, Haryana, Uttar Pradesh, Arunachal Pradesh, Gurgaon etc.**
- Knowledge of Electrical, Civil, Mechanical work of the Solar Power Projects, Modules String Series-Parallel Calculation, Cable Designing, Inverter Loading, Ear thing, Transformers Installation, L.A, A.C.D.B, S.C.B, L.T- H.T Control Panels laying Power cables, Cable trays, Marking foundations and various Electrical projects.

## Occupational Contour:

**Senior Project Engineer Electrical-** From Nov/2017 to till now.  
Company Profile- **Amogeo Ites India Limited** Dehradun, Uttarakhand.

Responsible for **Solar** Roof Top & Ground Mounted-Project Designing, Planning, Operation, Site execution, Risk Management and Team Management of Solar Power projects.

### **Duties:**

- Managing project risk through mitigation planning.
- Leading an interdisciplinary team of designers.
- Determining project labor & resource requirements.
- Preparing substation SLD, Layout and Bill of Material & maintain unit equipment and utilities ensuring minimum breakdown time and to monitor that all are up to excellent standard.
- Ensuring the smooth integration of new electrical equipment.

- Making amendments to project plans and drawings.
- depth knowledge of IEC and IS standards related to AC Power evacuation
- Project planning, site execution and monitoring along with vendor/contractor management and logistics Planning/monitoring.
- Prepare various technical reports on major jobs, facility condition and modification jobs, including cost estimation and Equipment Evaluation Reports and photos for the disposal of company fixed assets.

**Project Engineer Electrical - From September/2015 to October/2017**

Company Profile- **Sonic Energy** (Mittal Machines Pvt Ltd), Dehradun, Uttarakhand.

Responsible for providing a full **Solar** Roof Top/ Ground Mounted Solar & Substation Electrical Project Management support service to colleagues from project initiation through to completion.

***Duties:***

- Advising on power distribution, grounding, lighting, control systems, and equipment specification.
- Responsible for preparing project proposal, project cost and delivery estimation and work schedules.
- Carrying out post contract commissioning and remedial works.
- Familiar with LT systems emanating from inverter output, auxiliary power distribution within plant.
- Using drawings and specifications to produce project plans.
- Co-coordinating the procurement of electrical materials and equipment.
- Undertaking cyclical surveys of electrical plant, machinery and equipment, to determine their condition.
- Managing project risk through mitigation planning.
- Leading an interdisciplinary team of designers.
- Testing existing electrical installations.

**Electrical Project Engineer- From June/2013 to August/2015.**

Company Profile- Ytek Control, Selaqui, Uttarakhand.

Responsible for ensuring that a Hydro Power projects needs and objectives are met, Project planning and Designing.

***Duties:***

- Performing load flow, voltage drop, motor starting, short circuit studies, and relay coordination studies
- Making sure projects meet the strictest electrical and building safety standards.
- Ensuring that all electrical design activities are carried out uniformly.
- Installing and connecting up electrical equipment.
- Collaborating with the prefabrication and design departments.
- Allocating tasks to the delivery team.
- Testing electrical installations.
- Carrying out detailed electrical design, calculations and drawings.
- Working on high voltage electrical projects up to 33kv.

**Professional overview:**

- Superior breadth of electrical project management experience, project Management & Development.
- High knowledge of complicated electrical machinery and related equipment.
- Excellent knowledge IEEE & National Electrical Safety Code standards.
- Verified project designs to ensure operational accountability.
- Monitored power distribution system features such as single-line diagrams and electrical equipment layouts.
- Perform responsibilities of making notes of electrical change, auditing Electrical contractor and providing recommendations, if required. Investigated and resolved root causes for all system malfunctions
- Handle the tasks of preparing detailed scope of work and interpreting engineering drawings for assigned projects, maintained and conducted risk assessments on spare part inventory
- Perform daily maintenance requirements and revision of engineering drawings.
- Responsible for coordinating with project team in handling technical matters and in preparing project cost.
- Handle the task of inspecting and troubleshooting electrical systems and apparatus.
- Developed and coordinated daily maintenance activities and procedures.
- Ensured that all facility work was performed in compliance with operating regulations and procedures.

## Present working Project:

- Up to 10MW Roof Top Type Projects at Uttarakhand, Madhya Pradesh, Gujarat, Haryana *Under the SECI Scheme* in year 2017-2018.
- Up to 1MW Roof Top Type Projects at Haryana in year 2017-2018.
- 150Kwp Roof Top The Asian School Uttarakhand in year 2018.

## Past Projects Handle:

- Upto 51 MW Solar Power Projects (On Grid/Off Grid/Hybrid) installed at various locations like **Uttarakhand** (URED), **Chandigarh** (CREST), **Punjab** (PEDA), **Haryana** (HAREDA), **Uttar Pradesh** (UPNEDA), **SECI, Delhi**.
- Upto 15 MW Micro Hydro Power Project (OnGrid/Offgrid) installed at various locations like **Nepal, Uttarakhand, Arunachal Pradesh**.
- **Testing & commissioning of 33/11kV Bans UPCL Substation at Pithoragarh .**
- Erection and Commissioning of External Electrical Work at Doon Medical College & Hospital Dehradun, Uttarakhand (Project U.P.R.N.N).
- Erection and Commissioning of Internal & External Electrical Work of 33/11KV Substation at Pithoragarh.
- Internal & External Electrification and Allied Work of Proposed Food Commissioner Office Building Dehradun.
- Uttarakhand Jal Vidyut Nigam Limited (Hydel Power station) 4 weeks.
- Power Transmission Corporation Of Uttarakhand Limited (132kv Substation) 6 weeks.

## Software Proficiency:

- Electrical 2D AutoCAD, PVSol, PVSyst, Stadd Pro, Corel Draw, P.L.C-Scada, MS-Office.

## Personal Qualities:

- Excellent Communication, listening and motivating skills, analytical Skills.
- Ability to learn quickly is my forte that has helped me successfully manage various jobs given.
- Ability to work with a team of dedicated professionals for achieving the deadlines of execution.

## Achievements:

- Winner of Electronic Open Hardware in Pinak' 12, National level technical symposium organized by Dev Bhoomi Group of Institutions.
- Two times winner of "Motopsy" in Shivafest-11 & 12 respectively.
- Winner of the Football and Cricket Match in Shivafest-12.
- Technical Organizer of "Versorium Club" in Electrical & Electronics Branch.
- Played different types of Cultural Events & Sports at school level.

## Personal Profile:

- Name : Er.Rajat Thapliyal
- D.O.B : 05/May/1991
- Gender : Male
- Father Name : Mr.Virender Thapliyal
- Marital Status : Unmarried
- Hobbies : Listening songs & Reading books

Date: 24 /June/2018

Place: Dehradun, Uttarakhand