

Sandeep M. Nair

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Professional Summary:

Electrical power systems professional with extensive experience as a Transmission Planner at Burns & McDonnell India. Adept at various key work efforts, including Interconnection Application Support, Steady State Stability Studies, Reactive Power Compensation Studies, Injection Analysis, SC Study, Cap Bank Switching Studies, and RVC Analysis. Proficient in the use of software tools such as Siemens PSS/E, Power GEM TARA, ETAP, ASPEN, AutoCAD, MATLAB/Simulink, and Homer Pro. Additionally, possess exposure to GE PSLF and Siemens CAPE. Actively engaged in Power Flow Programming Automation workgroups and regional power system summits. Skilled in collaborating with ISO and RTO entities across North America. Expertise in supporting zero-emission transportation initiatives through power system studies.

Relocation: Willing to relocate for the right career opportunity.

Total Experience:- 5.5 years

Education:

M.Tech. Electrical Power Systems from Government College of Engineering Karad, India

B.E. Electrical Engineering, University of Mumbai, India

Experience:

Present Role: Associate Senior Engineer: Transmission Planner - Burns & McDonnell India

Conducted Network-level studies (FCITC, Load Interconnection, outage planning) & Interconnection Application Support to ensure seamless integration of power projects.

Performed a range of critical power system studies, including Steady State Stability Studies, Reactive Power Compensation Studies, Injection Analysis, SC Study, Cap Bank Switching Studies, and RVC Analysis.

Utilized software tools such as Siemens PSS/E, ETAP, ASPEN, AutoCAD, MATLAB/Simulink, and Homer Pro for analysis and design.

Engaged in power flow programming automation workgroups and actively participated in regional power system summits.

Collaborated with ISO and RTO organizations across North America to ensure grid reliability.

- Provided support to the largest solar plant developer in the U.S., working on interconnection projects from the West Coast to the East Coast.
- Establish a special studies team: presently a group of Four Engineers to Interconnection applications to Commissioning support
- Build and support Python- Enfuzion based PSS/E Multi runs
- Support Injection Screening studies
- Consulting support to end client for any new special studies support

Analyst Coop-IP wing

Analyzed commercial grid-connected loads (laundromats, appliance-heavy retail) to improve reliability and energy efficiency. Developed load-switching and demand-response strategies aligned with utility signals.

Graduate Engineer Trainee - Operations

Gained one year of experience at a combined cycle captive power plant with a 116MW capacity. Worked with plant assets, including GE Frame 6F Gas Turbines, boilers, CSTG, BPSTG, HRSGs, and BOPs.

- Skills:**
- Power System Studies
 - Software Proficiency: Siemens PSS/E, ETAP, ASPEN, AutoCAD, MATLAB/Simulink, Homer Pro
 - Interconnection Application Support
 - Renewable Energy Integration
 - Grid Modernization
 - Project Management
 - Automation and Programming
 - Reliability and Stability Analysis

Experience



Burns & McDonnell India

Associate Senior Engineer: Transmission Planning (TP&PSA)

December 2024 - onwards

Engineer: Transmission Planning (TP&PSA)

August 2022 -December 2024



GE Appliance (a Haier company)

Research Intern (IP patent wing)

January 2022- August 2022

March 2021 – Dec 2021

GET Engineer Trainee

HPL Captive Power Plant / OMS Pvt Ltd. (subsidiary of OMS Mauritius) 116 MW Combined cycle cogeneration plant



Dec 2018 - Jun 2019



Research Intern

Indian Institute of Technology, Bombay

Worked on a Research Project on Feedback controlled Magnetic Levitation of a body at a quasi-stable point

sponsored by: - IRCC IITB

Dept. of physics, IIT-B

Education



Government College Of Engineering Karad

M-Tech, Electrical Power System CGPA: 8.67 Pointer

2019 - 2021



University of Mumbai

Bachelor of Engineering , Electrical Engineering CGPA : 7.67 Pointer

2015 - 2019

DETAILS:-

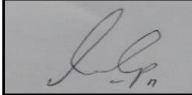
Name: - Sandeep Muraleedharan Nair
DOB: - 8th August 1997

Languages Known: - English, Hindi, Marathi and Malayalam

DECLARATION :-

I hereby declare that all the particulars furnished above are correct as per best of my knowledge.

-Sandeep M .Nair

A rectangular box containing a handwritten signature in black ink. The signature is stylized and appears to be 'Sandeep M. Nair'.

Place:-

Bhandup, Mumbai