

Dakshayini Raj

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EDUCATION

- **M.Tech in Power System Engineering** from Ghousia College of Engineering, VTU, Bangalore Completed in 2013.

Project: Comparative Analysis on 24 and 48 pulse double bridge VSC based HVDC System

Multi-pulse converter compensates the effects of harmonics by using the phase shifted transformer. The Multi-pulse configuration consists of several six-pulse converter units in either series or parallel on the DC side. These units are phase-shifted with respect to each other by the transformer connection. Design of 24 and 48 pulse converters have been presented along with their MATLAB based simulation. The general closed loop control circuit is used in the transmitter and receiver side of the power system. For performance comparison the major factor considered is the total harmonic distortion (THD).

- **B.E in Electrical & Electronics Engineering** from M.V.J College of Engineering, VTU, Bangalore Completed in 2005.

Project: PLC based Power system Automation using SCADA at BEL

A supervisory control and data acquisition system (SCADA) transmits and receives logic or data from events of controls, metering, measuring, safety and monitoring of process devices such as Electrical equipment, instrumentation devices, telecommunication on industrial applications. Power system elements ranging from pole-mounted switches to entire power plants can be controlled remotely over long distance communication links. Remote switching, tele-metering of grids (showing voltage, current, power, direction, consumption in kWh, etc.), even automatic synchronization is used in some power systems.

INDUSTRIAL EXPERIENCE

- Worked on SARAS-II as Junior Engineer in Aircraft Design Engineering Services, CADD at NAL, Bangalore from March 2007 to December 2010
- Assigned to work on detailed wiring design of electrical and utility system and also involved in preparation of electrical, theoretical and routing wiring diagrams, panel wiring diagrams, preparation of cable list etc using Auto-CAD.
- Worked as Design Engineer SAFRAN Aerospace Engineering Services, Koramangala, Bangalore from January 2011 to December 20

SOFTWARE EXPERTISE

MATLAB and Auto-CAD

CONFERENCE ATTENDED

International Conference on Future Trends in Electrical and Electronics on Comparative Analysis of 24 & 48 pulse double bridge VSC based HVDC system.
