Jaivik Kachhia

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EDUCATION

Examination	University	Institute	Year	CPI / %
Postgraduate Specialization: ENERGY SYSTEM ENGINEERING				
Post Graduation	IIT BOMBAY	IIT BOMBAY	2013	8.48
Undergraduate Specialization: ELECTRICAL ENGINEERING				
Graduation	Sardar Patel University	Birla Vishvakarma Mahavidyalaya	2010	9.37
Intermediate/+2	G.S.H.S.E.B	C.V. M Higher Secondary school	2006	72.00
Matriculation	G.S.H.S.E.B	V. N. Multipurpose High School	2004	82.43

PUBLICATION

Jaivik Kachhia, R. M. Shereef, S. A. Khaparde, "Operation and Tariff for composite PV-Battery system," *International conference IEEE INDICON - 2013*, Bombay, M.H. Dec. 2013.

EXPERIENCE

- Three years of international experience in electrical system design for the buildings and infrastructure
- Familiar with international standards such as IESNA, CIBSE, BS standards, NFPA, NEC, DEWA (Dubai Electricity and Water Regulation) regulations, etc.
- Consistently improving and achieved a score of 4.25/5 during employee annual development review.
- Energetic and confident who can easily learn and implement new things to deliver bottom line results and thereby fulfil the expectation of my employer.
- Sound knowledge of electrical design, detailing & MEP coordination, sound interpersonal, organizational, communication and presentation skills.
- □ Electrical Engineer: Dar Al Handasah Shair & Partner, Pune (Aug. 2013 Present) I have done,
 - Load flow study, Short circuit study, Single line diagram design, Lightning protection system design, Earthing system design, Generator & Transformer sizing and Cable tray sizing
 - Load estimate, Design of small power distribution, Motor control center, Indoor and outdoor lighting system & control design,
 - MV & LV network schematic for infrastructure projects
 - Preparation of engineering documents (Bill of Quantities, Method of measurements and specification).
- □ **Lecturer:** A D Patel Institute of Technology, Anand.

(Mar. 2011 - Apr. 2011)

Laboratory class: Basic Electrical Engg., Electrical Measurement, Power electronics & Microprocessor

KEY ACADEMIC PROJECTS

 \square Post Graduate Dissertation:

Modelling, Operation and Tariff for composite PV-Battery system

(June 2013)

- I had modelled a 50 kWp solar photovoltaic (PV)-Battery system for estimation of PV power output for a site in India.
- I had **found minimum operating cost** of combined thermal generators and PV-Battery plant for each hour by solving cost optimization problem in MATLAB.
- I had computed electricity tariff and did financial analysis for PV-Battery system to check the project viability.
- I had done Placement of PV-Battery system for power loss minimization in a power distribution network.

□ B.E. Project: Simulation of Generator Protection Using Numerical Relay 7UM511 and SIMATIC S7-200 PLC (Apr. 2008) - I had prepared hardware to implement the generator protection features; DC shunt motor as prime mover and AC synchronous machine as generator - I had done fault calculation; sizing and placements of circuit breakers and instrument transformers. I had studied relay operation and done relay settings calculation - I had done PLC ladder programming and its interfacing to power circuit to control the operations. SOFTWARE SKILLS □ Programming Language: MATLAB-SIMULINK, LATEX, SCILAB, C. □ Application Software: ETAP, PVsyst, DIALux, REVIT-MEP. INDUSTRIAL TRAINING □ JYOTI SWITCHGEARS LIMITED (Jan. 2009) - Manufacturing process of contactor, motor starters, instrument transformers, motors and switchgear panels. □ ATLANTA ELECTRICALS LIMITED (Jan. 2008) - Transformer manufacturing processes: Winding construction, core assembly, tapping, drying, tank fabrication, oil filing and testing. POSITION OF RESPONSIBILITY □ TEACHING ASSISTANT: 'EN 210 LAB CLASS at IIT BOMBAY' (2011-2012) Mentored electrical machines laboratory classes, assessed lab journals □ DEPARTMENT EVENT LEADER: 'ANNUAL DAY' at B V M ENGG. COLLEGE (2009)- Volunteered for publishing department's annual 'VISHVAKARMA' magazine □ MAINTENANCE IN-CHARGE: 'COMPUTER LAB at B V M ENGG. COLLEGE' (2008-2010)- Computer maintenance, OS installation and software updates EXTRA CURRICULAR ACTIVITY □ I have done Intermediate in Classical Music with first class with specialization in TABLA. (2011)□ Awarded **bronze medal** in KHO-KHO event during PG Sports held at IIT-Bombay (2012)□ Awarded MERC **government fellowship** for M.Tech in Energy System Engineering at IIT Bombay. \square Achieved **gold** and **silver** medal for **first rank** in graduation; 2^{nd} in university (2010)□ Awarded Prof. J.C. Panchal project competition merit prize for **best** project in B.E. (2010)

HOBBIES

□ Playing Tennis, Chess and TABLA