

Dev Sharma

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Seeking a challenging position in RENEWABLE ENERGY SECTOR

EXPERTISE

PV Sizing
Product Development
CSP Modelling &
Simulation
Feasibility Analysis
Design Engineering
ThermoEconomic Analysis
Thermal Analysis
Cross Functional
Coordination
Client Interaction
Leadership Acumen

PROFILE

- ◆ A competent individual with 2+ years of expertise in Design Engineering, Modelling & Simulation, Product Analysis, Project Co-ordination & System Design
- ◆ Currently pursuing Masters in Sustainable Energy from KTH, Stockholm & UPC, Barcelona
- ◆ Skilled in conducting Solar/Thermal/Gas power plant sensitivity analysis using Transient System Simulation Tool (TRNSYS) & Mat Lab
- ◆ Demonstrated abilities in technology feasibility analysis, aligning strategies with organizations' business objectives and developing specific success metrics and analytic approaches tailored to the unique needs
- ◆ Conducted design engineering for various mechanical systems in an energy company
- ◆ Ability to use sound judgment & decision-making skills and effectively perform in a self-directed environment
- ◆ An articulate communicator with proven interpersonal and negotiation skills, honed with a high degree of flexibility, creativity, commitment and optimism

PROFESSIONAL HIGHLIGHTS

- ◆ Executed feasibility study for utilization of discarded coal fines at crushers, screeners in coal mine facility
- ◆ Designed a PVT system for SURYOJAL, a solar based water distillation product
- ◆ Conducted technical and economic feasibility analysis for Solar Based Absorption Cooling in India
- ◆ Successfully analysed the idea of cooling the cooling water in power plants for efficiency increase
- ◆ Received letter of appreciation from Indian Space Research Organization (ISRO) for efficiently leading the team
- ◆ Received Erasmus Mundus Scholarship for Masters in Sustainable Energy (SELECT Program) and SAE India Southern Section Scholarship for the year 2007-08.
- ◆ Founder of "Rocket Club" and conducted several workshops on "Fundamentals of Rocketry".

PROFESSIONAL EXPERIENCE

SIEMENS CORPORATE RESEARCH, BANGALORE, INDIA

FEB 2013 – JUN 2013

Intern (As part of Masters in Sustainable Energy)

- ◆ Conducted technical and economic feasibility study, calculations of carbon footprint reduction on Solar Based Air-Conditioning (SBAC) in industries & Indian conditions
- ◆ Modelled & simulated a solar cooling system using transient system stimulation tool (TRNSYS) & Mat Lab
- ◆ Optimized the SBAC system by iterative simulations, with collector type, size, slope, storage tank size and thermostat settings as the key variables for different Indian cities
- ◆ Validated the simulated components of model through literature/experimental data/datasheets available after literature review
- ◆ Estimation of cooling demand of an office building through simulation in TRNBuild

RELIANCE POWER LIMITED, MUMBAI, INDIA

OCT 2009 – AUG 2011

Assistant Manager - Engineering Services

- ◆ Responsible for evaluating technical drawings, layouts, plans, P&IDs in AutoCAD for mechanical packages conveyor system, fire protection, water supply system, EOT cranes, heating ventilation & air conditioning
- ◆ Responsible for coordinating with other internal departments for smooth package operation & execution
- ◆ Liable to operate various mechanical packages & executed feasibility study for utilization of discarded coal fines at crushers, screeners in coal mine facility for power generation with pelletizer
- ◆ Prepare technical evaluation report (TER) against bids submitted for mechanical packages, notice inviting tender (NIT) document for mechanical packages
- ◆ Reviewed the design of conveyor system, water intake supply system by Indian Standard & CEMA

EDUCATION / CERTIFICATIONS

- ◆ Masters in Sustainable Energy, KTH, Stockholm & UPC, Barcelona, Jul 2013
Solar Thermal, Photovoltaic Systems, Photovoltaic Devices, Sustainable Energy Utilization, Sustainable Power Generation, Thermo-economic Optimization of Solar Plants, Integration of Renewable Energy Systems to the Grid, Advanced Renewable Energy Technologies, Energy Management
- ◆ Crash Course in Entrepreneurship, ESADE Business School, Feb 2012
- ◆ Bachelor of Technology in Mechanical Engineering, Vellore Institute of Technology, Vellore, India, May 2009

PROJECTS

Product Development Projects

SURYOJAL: Solar Membrane Water Distillation Unit UPC Barcelona & KTH Sweden, Oct 2012 – Jun 2013	<ul style="list-style-type: none">◆ Designed the PVT system◆ Conducted analysis on SWOT to market & competitor research◆ Devise Solid Works model for the designed system◆ Finalist for Philips Innovation Award
Low Cost Sustainable Energy Solution: Low Cost Housing, KTH, Sweden, Oct 2011 – Apr 2012	<ul style="list-style-type: none">◆ An integrated cooking system to utilize both biogas & wood as fuel◆ 3D model design system using Solid Works◆ Involved in Market research and analysis in low cost housing sector

Academic Projects

- ~ ThermoEconomic Analysis of Storage Tanks in Air Cooled CSP Plants, KTH Sweden, May 2012 – Jul 2012
- ~ Payload construction of RH200 Sounding Rocket, Indian Research & Space Organization, Sep 2008 – May 2009
- ~ VIT-SAE Supermileage, Michigan U.S.A, May, 2006 – Apr, 2008
- ~ Tabletop Thermoacoustic Refrigerator for Demonstration, VIT University, Sep 2007 – Dec 2007

IT SKILLS: AutoCAD, SolidWorks, MATLAB, TRNSYS, EES, Office, C / C++ , FORTRAN, PVSOL

Languages known: English, Hindi, Spanish (Beginner), Swedish (Beginner)

References and verifying documentation furnished upon request