

Syed Ahmad Raza

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QUALIFICATIONS

M.E. in Mechanical Engineering (Energy Systems)	NED University of Engineering & Technology, Karachi, Pakistan	2013
B.E. in Mechanical Engineering	NED University of Engineering & Technology, Karachi, Pakistan	2008

INDUSTRIAL EXPERIENCE

More than two years of industrial experience as:

Engineering Consultant
Various firms



Graduate Trainee Engineer with planning responsibilities
Eni Pakistan Ltd, Bhit & Badhra Gas Plant, Pakistan



Trainee Mechanical Engineer
ENAR Petrotech Services (Pvt) Ltd, Karachi, Pakistan

TEACHING EXPERIENCE



Assistant Professor in Mechanical Engineering Department
In-charge of Steam Generation & Steam Turbines Laboratory
NED University of Engineering & Technology

– May 2011 to present

ACADEMIC PROJECTS AND PUBLICATIONS

- M.Eng. Thesis: Development of tilt and orientation factor contours compensated for site-specific requirements; developed MATLAB code for generating contour plots of collected solar energy incident on surfaces of various orientation and its variation throughout the year.
- A. Adeel, M. A. Siddiqui and S. A. Raza, "Optimization of Wind Turbine Performance using Design of Experiment Methodology," in *International Conference on Energy and Sustainability*, Karachi, 2013.
- A. Khalid and S. A. Raza, "Economic and Environmental Benefits of Adopting Energy Efficiency Methods for a Typical House in Pakistan," in *International Conference on Energy and Sustainability*, Karachi, 2013.

TRAININGS AND COMPUTATIONAL SKILLS

- Professional Competency Enhancement Programme for Teachers (PCEPT), conducted at NED Academy by National Academy of Higher Education (NAHE), Pakistan
- Computerized Maintenance Management Systems (CMMS) Maximo and SAP; 'End User' training in SAP modules of Plant Maintenance and Materials Management
- Programming languages Python and MATLAB; Arduino microcontroller
- Engineering Equation Solver (EES), TRNSYS, RETScreen, HOMER, ANSYS, Pro/ENGINEER, AutoCAD, CAESAR II and COMPRESS