

# HAMID IKRAM

## Mechanical Engineer

### PERSONAL INFO

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### SOFTWARE/SKILLS

- PV\*SOL
- TRNSYS
- AutoCAD
- Abaqus (Finite Element Analysis)
- Ansys
- Matlab
- SkechUp
- MS Office
- OpenFOAM
- Pro-E
- LabVIEW

### HONOR AND ACHIEVEMENTS

- **Best Research Award**
- Awarded USAID merit scholarship
- Best Conference Presenter Award
- Winner in English Essay Writing (2009 and 2010)
- Selected for US Exchange Program

### INTERESTS

- Video Editing
- Reading Books
- Speeches and Debate
- Sports (Cricket, Football)

### PERSONAL STATEMENT

I would like to express myself in a competitive research environment where I could implement my skills and make a difference with my work. My area of interest is “**Thermodynamics, Designing and Renewable Energy**” in Mechanical Engineering and won the **Best Research Project Award** in my final year project. My strengths are my honesty, punctuality, discipline, commitment to excellence and eagerness for taking challenges.

### EDUCATION

#### ❖ MS Thermal Energy Engineering

U.S.-Pak. Center for Advanced Studies in Energy, USPCASE  
National University of Science & Technology, NUST  
September 2017- January 2020

#### ❖ B.S Mechanical Engineering

University of Engineering and Technology, Peshawar  
August 2013–June 2017

### TRAINING AND WORKSHOPS

- Processing and Characterization of Materials  
(XRD, Sputtering, PLASMA ARC, HVOF, SEM, GC-MS, FTIR)
- Operations and Maintenance Preparatory Training (LEED)
- Internship and Training at Attock Gen. Limited
- International Conference on Sustainable Energy in Pakistan (ICSEP)
- Hydro Power and Solar PV Workshop

### ACADEMIC PROJECTS

- Design and Integration of Solar PV system to Conventional Cold Storage
- Re-designing and Modelling of Cold Storage Refrigeration System
- CFD Analysis of Drip Irrigation Emitter
- Stress Analysis in Gas Pipelines
- Performed Several Material Qualities Controls Tests on PVC Pipes

### RESEARCH PUBLICATIONS

- **H. Ikram et al.** “Techno-economic Evaluation of a solar PV integrated Refrigeration System for a Cold Storage,” Under Review in “**Sustainable Energy Technologies**” and Assessments by Laura Schaefer (IF: 3.456)
- **H. Ikram et al.** “Designing of an Efficient Evaporative Condenser for Cold Storages” in Proceedings of 2019 10<sup>th</sup> International Conference on Management Research (ICMR)
- Musannif Shah, Adeel Javed, **Hamid Ikram** “Modeling and Optimization of Solar Absorption Cooling System for Cold Storages in Pakistan” in Proceedings of International Conference on Mechanical Engineering (ICME-2020)