NOOR US SABA KHAN

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OBJECTIVE

A self motivated, enthusiastic engineer with rigorous experience on and off field, aspiring to work as data analyst with my diversified skill set earned through my most recent educational experience from top tech institute of the world.

EDUCATION

Georgia Institute of Technology, USA
Master of Science in Field of Mechanical (MS) **Aug 2019- Dec 2020**
CGPA: 3.80/4.0

NED University of Engineering and Technology, Karachi
Bachelor of Engineering in Field of Mechanical (BE) **Jan 2013- Dec 2016**
CGPA: 3.786/4

B.A.M.M PECHS College for Women, Karachi
Intermediate, Pre-Engineering. **Jan 2011- Dec 2012**
Percentage: 88%

Airport Security Force (ASF) Public School, Karachi
Matriculation, Science. **Jan 2009- Dec 2010**
Percentage: 91.88%

WORK EXPERIENCE

Performance Analyst
General Electric (GE Digital) **Jan 2019- Aug 2019**

- Performance monitoring of **GE Digital's** customer power plants including Halmore Power Station (Bhikki), Sapphire Power Plant (Muridke) etc.
- Customer dealing with regards to plant's performance and weekly update meetings to satisfy their concerns.
- Troubleshooting the issues in installed digital solutions at customer sites.
- Leading the implementation of new solutions which includes vendor dealing, procurement, installation and first run.
- Constant evaluation of real time power plant data to identify performance gaps and improvising accordingly.
- Working closely with software team as subject matter expert (SME) for successful development of software to help customers in Middle East have better visualization and analysis of their plant's performance that leads to proactive solutions.

Assistant Manager
K-Electric **Aug 2018- Dec 2018**

- Assisting review of Request for Proposal (RFP) for 900 MW Bin Qasim Power Station-III (BQPS-III)
- Assisted technical study of comparison between single shaft and multi shaft arrangement in combined cycle power plant (BQPS-III)

Trainee Engineer
K-Electric **Aug 2017- July 2018**

- Observed & Assisted the Major Inspection Activity of 130 MW GE Frame 9E Gas Turbine which included NDT of compressor & turbine blades, Fluorescent Piece Inspection for crack's identification, and Combustion Chamber Replacement.
- Heat Balance Calculation of 560 MW Combined Cycle Power Plant to identify points of heat losses.
- Worked on technical feasibility of absorption chiller, powered by low grade exhaust gases from Heat Recovery Steam generator, to provide inlet air cooling for gas turbine
- Improvised boiler MFT logic to enhance power plant's operations reliability.
- Performed analysis on impact of online water washing of gas turbine on power output.
- Verification of operation and maintenance cost calculation for all KE's Generation Power Plants.
- Reviewed the Power Purchase Agreement contract of 100 MW SNPC.

Senior Officer

Dawlance- Arcelik **Jan 2017- July 2017**

- Worked in the Quality Department, Production Engineering Department, Process Engineering Department, Energy and Environment Department.

Intern

BYCO Petroleum Pakistan Limited **June 2015- July 2015**

- Interned at BYCO Petroleum Pakistan Limited (ORC 1) for four weeks which covered orientation in controls, operation and maintenance departments.

PROJECTS

- Least Square Curve Fitting on Noisy Data- developing algorithm for least square and its variants in **MATLAB**.
- 3E (Energy, Exergy, Economic) Analysis of Waste Heat Recovery System at Georgia Tech- development of thermodynamic models in **EES** (Engineering Equation Solver)
- Heat Transfer Performance Analysis of a Central Receiver Pipe for a CSP Plant- heat transfer equations were modelled using **MATLAB**.
- Technical feasibility analysis of molten salt based solar power plant for Pakistan including simulation of plant model on **TRNSYS**.
- Data Fusion for System Design- **machine learning algorithms** created in **Python**.
- Handling Curse of Dimensionality through Regression- regression analysis carried out in **Python** environment using **Jupyter Notebook**.
- A Review of the Fake News Detection Technology Based on Machine Learning.

HONORS

- Fulbright Scholarship 2019.
- Global UGRAD participant for fall of 2014, serving as cultural ambassador for 6 months in USA.
- Brand ambassador of British Council in year 2015.
- Numerous awards in debate and declamation throughout the country.
- 11th and 12th positions in Karachi Board in intermediate and matriculation respectively.

REFERENCES

References will be made available on request.