

# MUHAMMAD ANUS

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## Education

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**-NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (3.54)** Karachi, Pakistan  
Masters – Energy System 2021-2022

**-NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (3.507)** Karachi, Pakistan  
Bachelors – Mechanical Engineering 2016-2020

**-ADAMJEE GOVERNMENT SCIENCE COLLEGE (83.55%)** Karachi, Pakistan  
Intermediate – Pre Engineering 2014-2016

## Professional Experience

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**-NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY** Karachi, Pakistan  
Department of Mechanical Engineering, NEDUET

*Lecturer: March 2023- Present*

- **Responsibilities:**

- ✓ Course Instructor of Manufacturing Processes (Theory)
- ✓ Lab Instructor of Manufacturing Processes (Practical)
- ✓ Lab Instructor of Materials and Metallurgy (Practical)
- ✓ Involved in Administrative work related to OBE.

**-MMG ENGINEERING ASSOCIATES (PVT.) LTD** Karachi, Pakistan  
MMG Engineering is a global design engineering consulting firm providing outstanding solutions, innovation and value characterize work. As professional Consultants it has a vast pool of technical expertise across the world, enabling us to achieve the best possible results for our clients.

*Project Engineer (Mechanical): JAN 2023- March 2023*

- **Project Tasks:**

- ✓ Planning, designing, technical evaluation, selection and procurement of equipments such as Boilers, Air Compressors, and Chillers along with necessary auxiliaries like heat exchangers, centrifugal pumps and cooling towers.
- ✓ Preparation of tender documents for contractors for bids evaluation to carry out mechanical works for our clients.
- ✓ Carry out Industrial Energy Audits to check for operations and maintenance negligence resulting in energy loss and propose alternatives to avoid recurrence and maximize the overall efficiency.
- ✓ Supervising drafting of mechanical drawings, equipment specifications and project schedules

**-AISHA STEEL MILLS LIMITED (ASML)** Karachi, Pakistan  
Aisha Steel Mills Limited (ASML) is a Group Company of Arif Habib. ASML is a state of the art cold rolling & hot dipped galvanized rolling complex.

*Executive Engineer: FEB 2021- DECEMBER 2022*

- **Maintenance:**

- ✓ Root Cause Analysis of break downs and operation downtimes relevant to my jurisdiction.
- ✓ Data Acquisition and root cause analysis of areas of improvements and assist appropriate remedial action and timely solution to minimize downtime.
- ✓ Identify the critical equipments and spare parts and suggest its standby to eliminate the chances of lengthy breakdowns.
- ✓ Compliance with IMS requirements in Crane and PEB domain.

- ✓ Acquire equipment to Aid and support production.
- ✓ Plan and execute preventive / shutdown maintenance of my assigned area.
- ✓ Planning and execution of local and international critical spares development and modification where required.
- ✓ Erection and commissioning of mini projects.

### -AMAL ACADEMY

Karachi, Pakistan

**Brand Ambassador:** MAY2020 – JUN2020

Intern for the summer 2020, Marketing Campaign at Amal Academy.

- **Marketing:** Established communication channels with aspiring applicants by reaching out to students and faculty bodies of different universities in Pakistan by creating marketing content online and collecting signup details from applicants and making phone calls to the potential fellows.

**Career-Prep Fellow:** FEB2020 – MAY2020

Education startup funded by Stanford University that teaches professional skills to students and corporations

- **Communication:** Completed a competitive written application and interview process to be selected from over 5000 applicants for intensive 3-month Fellowship funded by Stanford University
- **Skills development:** Invested 150 hours to develop business skills (e.g. communication, leadership, problem-solving, teamwork, etc.) that will help me make a deeper impact on the job

### - PAKISTAN INTERNATIONAL AIRLINE (PIA)

Karachi, Pakistan

A pioneer name in the field of Airline/Aviation. PIA manufactures high precision parts for the aerospace industry and several other industries.

**Internship:** (September 2019)

- I learned and observed technical details of aviation maintenance. Visited different overhauling shops like Engine overhaul shop, Landing gear overhaul shop, Aircraft overhaul shop, Base maintenance, Line maintenance, and Structure shop

### -PAKISTAN COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (PCSIR).

The objective of the establishment of the Council was to initiate and promote scientific and industrial research towards the utilization of indigenous raw materials and development of industries based on them.

**Internship :**( March 2019- April 2019)

Karachi, Pakistan

- Observing work and running different types of machines in the workshop like Conventional Lathe Machine, Conventional Lathe Machine with DRO control, CNC Lathe Machine, Milling Machine, Machine Centre, Grinding Machine, and Hardening Tester

### -NATIONAL COACHING CENTRE (NCC)

Karachi, Pakistan

Educational Institute is running for the last 28 years with highly qualified professional teaching staff for supporting students to achieve their career goals.

**Lecturer:** (2017-2022)

- **Teaching Physics and Mathematics:**
  - ✓ Explained and presented the concepts of physics and mathematics of secondary level to fifty above students in a single class by creating a productive and interactive environment.
  - ✓ Conduct weekly tests for timely preparation of topics
  - ✓ One-on-one sessions for student counseling.
  - ✓ Parents-teacher meetings would be held after mid-term evaluation to discuss areas of improvement.

- ✓ Design a competitive paper weekly to evaluate the growth of mindset.
- ✓ Timely checking of test papers and timely compilation of results.

## Academic Experience

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### **-THESIS PROJECT.**

Karachi, Pakistan

***Researcher:*** (2021– 2022)

Empirical Investigation of Energy Management Practices for sustainability in Steel Industries of Pakistan.

## Extracurricular& Volunteer Experience

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### **NED ASHRAE PAKISTAN SOCIETY:**

Karachi, Pakistan

Worked as a volunteer in organizing the biggest technical event in NED called ACE'19.

## Honors and Awards

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### **ACADEMIC SCHOLARSHIPS.**

Karachi, Pakistan

- 1) Awarded Scholarship from DELHI-HAKIMAN USA Scholarship committee 2019-2020
- 2) Awarded Scholarship from LOTTE CHEMICAL INDUSTRIES 2018-2019

### **-ONLINE COURSES.**

Karachi, Pakistan

- 1) "Machine Learning Foundations: A Case Study Approach by UNIVERSITY OF WASHINGTON on Coursera.
- 2) "Interpersonal Communication for Engineering Leaders by UNIVERSITY OF RICE on Coursera.

### **-AWARDS AND CERTIFICATIONS.**

Karachi, Pakistan

- 1) Received merit-based Laptop, Award from Prime Minister Pakistan (2017)
- 2) Awarded a certificate from AL FAIZAN ACADEMY by obtaining 3<sup>rd</sup> Position in Essay Competition
- 3) Received award from National Coaching Centre due to remarkable performance in the teaching profession.

## Additional

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**Technical Skills:** Microsoft Word, PowerPoint, Excel, Matlab, Minitab, WRPlot.

**Interests:** Listening Motivational Speakers, Leadership, Poetry, and Books Reading

**Language:** Urdu(NATIVE), English