

# MUHAMMAD WAQAS

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## OBJECTIVE

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As a dedicated Electrical Engineering graduate student pursuing a Master's degree in research and backed by valuable training in the oil and gas sector, my goal is to integrate academic excellence with practical expertise. I aim to expand my knowledge base, harness the latest advancements in electrical engineering, and apply this dual proficiency to drive impactful innovations within the energy industry.

## EDUCATION

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<b>Memorial University of Newfoundland, Canada</b> Master of Engineering (Electrical Engineering)	Jan 2023-Present CGPA (3.8/4.00)
<b>University of Engineering &amp; Technology Lahore, Pakistan</b> Master of Business Administration	Oct 2016-Mar 2019 CGPA (3.542/4.00)
<b>University of Engineering &amp; Technology Lahore, Pakistan</b> B.Sc Mechatronics & Control Engineering	Sep 2009-Aug 2013 CGPA (3.318/4.00)

## PUBLICATIONS

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- Hybrid Power System Design and Dynamic Modeling for Enhanced Reliability in Remote Natural Gas Pipeline Control Stations, MDPI Energies 2024 (Published).
- Design and Analysis of a Hybrid Power System for a Remote Natural Gas Pipeline Control Station, 32<sup>nd</sup> Annual IEEE NECEC Conference (Published).
- Successfully presented “Design of a Photovoltaic System for a Remote Natural Gas Pipeline Compressor Station” at 24<sup>th</sup> Annual Adrich Multidisciplinary Conference, 2023 at MUN.

## WORK EXPERIENCE

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- **Memorial University of Newfoundland, Canada**  
Graduate Teaching Assistant (Spring 2023)
- **Sui Northern Gas Pipelines Limited, Pakistan** (Dec 2014-Dec 2022)  
Operations Engineer
- **Demar Engineers, Pakistan** (Aug 2013-Aug 2014)  
Trainee Project Engineer
- **Pak Arab Oil Refinery (PARCO), Pakistan** (July-Aug 2012)  
Intern
- **Olympia Chemicals** (July-Aug 2011)  
Intern

## CERTIFICATIONS

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- **Sui Northern Gas Training Institute, Pakistan**
  - Electronic Volume Correctors
  - Welding - API 1104
  - Gas Measurement Techniques
  - Operation & Maintenance of Natural Gas System