Umair Hassan

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Education

2014 – 2017	**University of Tromsø, Norway** Master's in Electrical Engineering *Master Thesis: Using Point of Common Coupling (PCC) for Power Shaving in Grid Connected Hybridized Network.*
2007 – 2010	**Sir Syed University of Engineering and Technology** Bachelor's in Electronics Engineering *Bachelor's Project: 24*7 Efficient Patient Monitoring through Wireless / Wired Network.*

Professional Skills

Certifications	**Introduction to Shell from Data Camp**
Programming / SW Tools	Python, C++, MATLAB & Simulink, ML , IoT, AutoCAD, Verilog, PSPICE
Core Skills	- Understanding of Power Systems, Electronics, Telecommunications, Computer Networks, Wireless Communications, Instrumentation, Control Systems, Power Electronics, Renewable Energy. - Data Collection and Analysis. - Technical documentation using Word and Latex

Experience

Jan 2019 – Present	**Lab Engineer,** NED University of Engineering and Technology - Taught Basic Electricity & Electronics and Applied Physics Courses. - Conducted labs related to process control and instrumentation, troubleshooting, diagnose and maintenance of the lab instrument. - Also worked as an LMS facilitator
May 2018 – Dec 2018	**Project Engineer,** Arabian Pearl Engineering Karachi - Light installation and maintenance project in Engro Polymer and Chemical. - Perform quality control of the work (budget, schedule, plans, personnel's performance) and report regularly on project status
Oct 2012 – Mar 2013	**Intern Telecom Engineer,** Pakistan Telecommunication Company Ltd - Wireless Department: Worked on M2000, Air Bridge, BSC 6680 (Operation and Maintenance), BTS 3606E, BTS DBS 3900 (Operation and Maintenance), Microwave RTN 620 Huawei, NEC and Pronet

Equipment and Network Operation Centre (NOC).

- Transmission Department: Worked on SDH Metro 5000 and Metro 3000 for Junction Network in Optical Fiber Long Distance, DWDM STM 64, ONU (Metro 1000 and MSAG Metro 1500) and DXX (Digital Cross Connect)
- Switching Department: Monitoring, MSAG, MSAN, ONU Alarms

Jan 2011 – Nov 2011 **Discipline Engineer,** Karachi Electric

- Worked in Power Generation Department

Publication

1. Hassan, M. U. ., Hassan, M. S. ., & Hoff, B. . (2025). Using Point of Common Coupling (PCC) for Power Shaving in Grid Connected Hybridized Network. Journal of Solar Energy Research Updates, 12, 6–29. https://doi.org/10.31875/2410-2199.2025.12.02

Language Skills

English	Good skills, both written and spoken
Norwegian	Intermediate understanding both written and oral

References

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