

Mujahid Abdullah

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EDUCATION

Master of Industrial Engineering & Management	University of the Punjab, Lahore (PU)	Jan 2022 – Oct 2023
Bachelor of Electrical Engineering	University of Engineering & Technology, Lahore (UET)	Aug 2016 – July 2020

EXPERIENCE

Metcon Hi-Tech Solutions <i>Chief Design Engineer</i>	May 2026
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- EV Technical Leadership & Training: lead the development of **specialized EV design tools** and deliver advanced technical training to engineers, focusing on powertrain architecture, simulation, and electric mobility systems.
- ISO 17025 & Quality Consultation: provide expert consultation and **training on ISO/IEC 17025 standards**, guiding laboratories through accreditation, quality management implementation, and technical compliance for high-precision testing.
- Embedded Systems & Dynamometer Design: architect and develop **embedded device solutions** and software interfaces for dynamometers, ensuring precise measurement and control for automotive and industrial testing applications.
- Custom Software & Digital Integration: the delivery of **integrated software solutions**, including LIMS and data acquisition tools, to automate laboratory workflows and ensure seamless hardware-software synchronization.

LUMS Energy Institute <i>Manager – eMobility R&D Center, LUMS</i>	Sep 2021 – April 2026
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- Oversaw comprehensive **testing and validation of EV systems** and components, enabling successful **market launches and regulatory approvals**.
- Led the end-to-end **development and design of electric powertrains** for two- and three-wheeler vehicles, including component sizing, battery selection, and integration of swappable battery technology for enhanced operational efficiency and reduced charging times
- Initiated and led the process for **ISO/IEC 17025 accreditation** for the testing laboratory, including the development and implementation of quality management systems and standard operating procedures to align with international best practices.
- Conducted comprehensive testing and evaluation of lithium-ion cells, battery packs, and complete electric vehicles to ensure **performance, safety, reliability, and compliance** with industry standards.
- Achieved successful **prototyping and validation** of powertrain systems, including 72V electric drive units and 4,5 kW motors, enabling vehicles to meet targets for speed, gradient handling, and range.

Analyst & Technical Support Engineer.

- Develop and implement **technical operational policies** and procedures for streamlined processes.
- Led the development of comprehensive test plans, **ensuring 100% regulatory compliance** for electric vehicles and components.
- Implemented **preventive maintenance** strategies, reducing maintenance costs by 25% and minimizing breakdowns by 20%.
- Monitor **key performance indicators** (KPIs) and generate reports to assess operational effectiveness.
- Implemented new directives that resulted in a 20% decrease in maintenance issues, improving **operational performance**.

Research Assistant - Analyst

- Gather data from swappable battery systems, including usage patterns, performance metrics, and **operational** data.
- Analyze swappable battery data to identify **trends**, patterns, and **anomalies**, providing **insights** into battery performance, usage efficiency, and operational **optimization**.
- Develop predictive models to **forecast** battery usage, predict maintenance needs, and optimize battery swapping schedules for maximum efficiency.

RESEARCH & PUBLICATIONS

- Paper titled *"Estimating Battery State of Health using Machine Learning"* published in IEEE, 2022, Malaysia. [Link](#)
- Collaborator *"Standards Guidance for Electric Two- And Three- Wheelers and Charging Infrastructure in Pakistan"* published by USAID-NREL, Feb 2024. [Link](#)
- Graduate Research Thesis *"Study the effect of occupational injuries on Industrial production: Evidence from Economic indicators & Labour force Survey of Pakistan 2018-19"*. IQTM, University of the Punjab, 2022. [Link](#)
- Undergraduate Thesis *"Tracking system for product assembly, supply chain and customer warranty"*. EE dept. University of Engineering and Technology, Lahore, 2020. [Link](#)

AFFILIATIONS

Visiting Master Trainer <i>Pakistan Institute of Pakistan Industrial Technical Assistance Centre (PITAC)</i> <i>Course: Electric Vehicle Design & Engineering</i>	May 2026
Technical Consultant <i>E-Mobility Research and Development Center – LUMS</i> <i>LUMS & USAID PSIA Three-wheeler EV Pilot Project</i>	Dec 2023 – Jan 2025
Registered Engineer <i>Pakistan Engineering Council</i>	Sep 2020 -
Vice-Chair Special Group on Humanitarian Technology (SIGHT) <i>Institute of Electrical and Electronics Engineer (IEEE)</i> University of Engineering and Technology (UET)	2018 - 2019
Head Power, Industry and Automation Chapter <i>The Institute of Engineering and Technology (IET)</i> University of Engineering and Technology (UET)	2019 - 2020

SKILLS

Programming Languages: Python, C/C++, R.

Web Development: Wordpress.

Data Analytics Tools: SPSS, Minitab, Rapid Minner, SQL.

Embedded Systems: Embedded C, Arduino Framework, Platform IO, CAN, RS485, SPI, I2C, Embedded GUI.

Cloud Computing: GCP, AWS IoT Core, MQTT.

Tools: MS Office 365, Canva, Prezi, Adobe Illustrator, Jira, MS Project Plan, LaTeX, Slack,

Core Skills: Project Planning, Team Working, Analytical Reporting, Quantitative Analysis, Technical proposal writing, Data Analytics and Visualization, Business Growth and Strategy.

CERTIFICATIONS & TRAININGS:

▪ Fundamentals of Predictive Project Management	Project Management Institute
▪ Project Management Essentials Certified (PMEC)	Management & Strategy Institute
▪ Data Analytics Certification Google Data Camp	Google Data Camp
▪ Alternative Power Generation Technologies	Schneider Electric
▪ Components of a Health Care Electrical Distribution System	Schneider Electric
▪ NDG Linux Unhatched	Cisco
▪ Optimize Supply Chains with Analysis in Google Sheets	Coursera