

# NABEEL SHEIKH MAHAMMAD

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## Personal Particulars:

**Date of Birth:** 2<sup>nd</sup> Nov 1999 | **Nationality:** Indian | **Gender:** Male

**Languages:** English & Hindi



## SUMMARY

- Senior Battery Technician with 5+ years of expertise in battery technology, testing, and assembly, including cell testing, capacity analysis, PCB board assembly, and fault troubleshooting, currently contributing to SPIRO in Togo, West Africa.
- Proven track record in optimizing workflows, automating data logging, and ensuring product quality and safety in high-pressure environments.
- Skilled in BMS management, PEAK CAN data analysis, and maintaining adherence to safety, productivity, and compliance standards.
- Proficiency in preventive maintenance, quality control, automating processes, and contributing to Kaizen activities and equipment calibration backed by a solid track record at leading firms like Sun Mobility, Ather Energy, Bosch Automotive

## SKILLS

EV 2W Battery Technology Expertise - Cell Testing & Capacity Analysis – PCB Assembly & Testing - Fault Diagnosis & Troubleshooting - Preventive Maintenance - Electrical & Electronics Knowledge - Data Analysis (Peak CAN, Error Codes) - Quality Control & Inspection - Charging & Discharging Techniques - Cell Balancing - Manufacturing & Assembly Operations Calibration & Instrumentation - Kaizen & Continuous Improvement- Safety Compliance & Audit Adherence - Technical Documentation & Reporting

## WORK EXPERIENCE

### Battery Service Engineer | DRIVE TERRA, Dubai, UAE | 2025-Present

- **Battery Maintenance:** Perform regular maintenance and inspections of lithium-ion batteries to ensure they are operating at peak efficiency.
- Conduct voltage and capacity tests on batteries to assess their health.
- Monitor battery charging and discharging processes to identify any abnormalities.
- **Diagnosis and Troubleshooting:** Diagnose battery-related issues by analysing performance data and conducting tests.
- Identify and rectify battery faults, including cell balancing, thermal management, and voltage irregularities.
- Troubleshoot and resolve battery-related problems in electric two-wheelers.
- **Battery Repairs and Replacements:** Perform repairs on batteries when possible, such as replacing faulty cells or components.
- Coordinate battery replacements when necessary, ensuring minimal downtime for electric two-wheelers.
- **Documentation and Reporting:** Maintain accurate records of battery maintenance, repairs, and replacements.
- Generate reports detailing battery performance, issues, and recommended actions.
- **Continuous Improvement:** Collaborate with the engineering team to develop and implement improvements in battery design and performance.
- Stay updated on industry trends and emerging technologies related to lithium-ion batteries.
- **Safety and Compliance:** Adhere to safety protocols and guidelines when handling batteries.
- Ensure compliance with all relevant regulations and standards in the electric vehicle industry

## Senior Battery Technician | SPIRO TOGO, West Africa | 2023 – 2025

- **Battery Technology & Performance Optimization:** Conduct in-depth analysis of battery cells, capacity, and overall pack performance to enhance efficiency and reliability.
- **Advanced Testing & Diagnostics:** Perform comprehensive cell testing, PCB assembly verification, and functional diagnostics to identify and resolve technical issues, ensuring seamless operations.
- **Process Improvement & Efficiency Enhancement:** Implement streamlined workflows, automate data logging, and develop tools to optimize production efficiency and reduce downtime.
- **Preventive Maintenance & Equipment Reliability:** Develop and execute preventive maintenance strategies to minimize failures, enhance system longevity, and ensure continuous operational readiness.
- **Quality Assurance & Compliance:** Oversee production, inspection, and testing processes in strict adherence to industry standards, regulatory requirements, and internal quality benchmarks.
- **CAN Bus System Calibration & Data Analysis:** Install and calibrate Peak CAN tools for vehicle diagnostics, conduct performance tests (speed, braking, range, temperature), and analyze data for actionable insights.
- **Technical Leadership & Continuous Improvement:** Drive innovation through active participation in Kaizen initiatives, 5S & 6S methodologies, and cross-functional collaborations for process enhancements.
- **Documentation & Reporting Excellence:** Generate detailed reports on test results, performance metrics, and improvement recommendations, contributing to data-driven decision-making.
- **Commitment to Safety & Compliance:** Ensure a safe and organized work environment while maintaining adherence to productivity, quality, and audit compliance standards.

## Battery Repair Technician | Sun Mobility Pvt Ltd, India | 2022-2023

- **Battery Diagnosis & Repair:** Identified and fixed faults in lithium-ion battery packs, ensuring optimal functionality and compliance with safety standards.
- **Root Cause Analysis:** Investigated battery failures, diagnosing BMS faults, thermal issues, and cell degradation to enhance reliability.
- **Testing & Reconditioning:** Performed module testing, balancing, and reconditioning to improve battery efficiency and lifespan.
- **Process Improvement:** Developed and refined SOPs for battery repair, streamlining workflows and ensuring safety compliance.
- **Collaboration & R&D Support:** Worked with R&D and QA teams to analyze failure trends, driving design improvements and reliability enhancements.
- **Documentation & Reporting:** Maintained detailed service logs and technical reports, supporting regulatory compliance and process optimization.

## Assembly Operator | Ather Energy Ltd, India | 2020 -2022

- **Component Assembly & Quality Assurance:** Led the assembly and quality assurance of key components for Ather Energy's electric scooter models, including the Ather 450X and 450S, ensuring adherence to stringent quality standards and specifications.
- **Testing & Troubleshooting:** Conducted comprehensive testing and troubleshooting of electrical systems, battery packs, and controllers, proactively identifying and resolving issues to maintain optimal functionality and safety.
- **Cross-functional Collaboration:** Collaborated closely with cross-functional teams to refine and enhance assembly processes, driving continuous improvements in efficiency, quality, and production timelines.
- **Equipment Calibration & Maintenance:** Managed and calibrated advanced assembly equipment, ensuring precise operation and minimizing production downtime in a high-demand manufacturing environment.
- **Quality Control Enforcement:** Enforced strict quality control measures throughout the assembly process, ensuring the seamless integration of hardware and software systems for defect-free product delivery.
- **Training & Process Optimization:** Contributed to knowledge-sharing and process optimization by participating in training initiatives, enhancing assembly techniques, and supporting Ather's mission to build a sustainable electric vehicle ecosystem.

## **Apprentice Trainee | Bosch Automotive Electronics Pvt Ltd, India | 2019-2020**

- **Product Quality Assurance:** Inspected PCBAs and finished products using visual and X-ray methods to ensure compliance with quality standards and industry regulations.
- **PCB Assembly:** Handled and assembled PCBs and fully assembled parts with precision, minimizing errors and ensuring high-quality production output.
- **Defect Detection:** Conducted visual and automatic optical inspections to identify defects, improving overall production quality and reducing rework.
- **Component Assembly:** Assembled and soldered electronic components onto PCB boards, ensuring optimal placement and soldering to enhance product durability.
- **Soldering Expertise:** Operated reflow and selective soldering stations, ensuring consistent soldering results and reducing the likelihood of faulty assemblies.
- **Firmware Programming:** Programmed and loaded firmware onto devices using flash stations, optimizing the production process and ensuring the functionality of electronic assemblies.

## **EDUCATION**

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**Diploma in (Electronics and Communication Engineering)** from Singhania University-2024

**ITI (Electronics Mechanic Course)** from SDM ITI VENOOR 2019

12<sup>TH</sup> PUC from SACRED HEART PRE UNIVERCITY COLLEGE MADANTHYAR -2017

10<sup>TH</sup> SSLC from SACRED HEART HIGH SCHOOL MADANTHYAR-2015