

SOUMYADEEP MUKHERJEE

Mechanical Engineer — QA/QC — Production — Maintenance — Site/Project Execution

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PROFESSIONAL SUMMARY

Mechanical Engineer with hands-on experience in Quality Assurance for aluminium extrusion profiles, site execution of overhead crane projects, and mechanical maintenance. Skilled in dimensional inspection, engineering drawing interpretation, in-process and final inspection, preventive maintenance, and site coordination. Seeking opportunities in QA/QC, Production, Maintenance, Site Engineering, and Core Mechanical domains.

CORE SKILLS

Quality Assurance / QA-QC: Dimensional inspection, in-process inspection, final inspection, surface inspection, cross-section inspection, inspection reporting, measurement records, tolerance verification, drawing-based inspection

Instruments: Vernier Caliper, Micrometer

Mechanical Site Execution: Mechanical erection and assembly supervision, alignment activities, overhead crane components (main girder, end carriage, hoist, trolley), runway beam and rail installation, commissioning support

Maintenance: Preventive maintenance, breakdown maintenance, fault diagnosis, diesel engines, hydraulic systems, equipment reliability

Software: AutoCAD, SolidWorks, CATIA V6, MS Excel, MS Word

PROFESSIONAL EXPERIENCE

Assistant Quality Assurance Engineer

March 2026 – Present

Alpro Extrusion Pvt. Ltd. — Aluminium Extrusion Manufacturing

- Perform dimensional inspection of aluminium extrusion profiles using Vernier Caliper and Micrometer.
- Verify dimensions and tolerances as per engineering drawings and specifications.
- Conduct surface and cross-section inspection of profiles (channels, hollows, rods).
- Carry out in-process and final inspection to ensure quality compliance.
- Maintain inspection reports, measurement logs, and QA documentation for traceability.

Site Engineer – Overhead Cranes

Feb 2026 – Mar 2026

Cranex Limited

- Executed installation, erection, and commissioning of overhead crane systems.
- Interpreted GA, layout, and fabrication drawings for accurate site execution.
- Supervised assembly of main girder, end carriage, hoist, trolley, LT/SL drives, and runway systems.
- Coordinated with design, planning, and client teams for technical approvals.
- Ensured safety compliance and adherence to project specifications.

Site Engineer (Contract)

July 2025 – Aug 2025

Nippon Paint India Pvt. Ltd. — Eastern Railway Workshop, Liluah

- Supervised railway coach exterior painting and finishing operations.
- Ensured quality standards, safety compliance, and schedule adherence.
- Managed manpower coordination and daily progress reporting.

Apprentice – Mechanical Maintenance

Dec 2021 – Dec 2022

Eastern Coalfields Limited (ECL)

- Assisted in maintenance of diesel engines and hydraulic systems in mining equipment.
- Supported breakdown and preventive maintenance activities.
- Performed fault diagnosis and troubleshooting to reduce downtime.

Industrial Trainee

Feb 2019

Eastern Railway – Carriage & Wagon Workshop, Howrah

- Gained exposure to fitting, welding, fabrication, and mechanical assembly processes.
- Followed industrial safety standards and quality procedures.

EDUCATION

B.Tech – Mechanical Engineering Hooghly Engineering & Technology College, Howrah CGPA: 8.94 (81.9%)	2019 – 2022
Diploma – Mechanical Engineering Technique Polytechnic Institute 69.26%	2016 – 2019
Secondary (Madhyamik) Bally Shikshaniketan School, Howrah 74.42%	2014

ACADEMIC PROJECTS

Solar Grass Cutter

- Designed a solar-powered grass cutting machine integrating PV panel and mechanical drive system.

Design, Manufacturing & Cost Estimation of Mechanical Keys

- Designed shaft–hub key using CAD tools with material selection and cost estimation analysis.

CERTIFICATIONS

AutoCAD — SolidWorks — CATIA V6 — Solar System Installation

ADDITIONAL INFORMATION

Languages: Bengali (Native), English (Professional), Hindi (Basic)
Date of Birth: 29 January 1998