

Muhammad Mursil Ghafoor

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EDUCATION

Ghulam Ishaq Khan Institute (GIKI)

Sep 2023 – 2027

BS Materials Engineering (Manufacturing Stream)

Focus: Manufacturing & Materials Processing for Industrial Applications

Relevant Coursework: Material Testing, Welding, Casting, Heat Treatment, Alloy Production

TECHNICAL SKILLS

Materials & Engineering: Materials Characterization (SEM, XRD), Metallurgy, Microstructure Analysis, Heat Treatment, Welding & Casting, Failure Analysis, Corrosion Analysis, RCA

Tools: SolidWorks, ANSYS (Basic), MS Excel, Power BI, Origin

ENGINEERING EXPERIENCE

PEL (Pak Elektron Limited) — Intern, DTR Department

Jul 2025 – Aug 2025

- Assisted in manufacturing operations and transformer tank production
- Supported quality control (QC) inspections and fabrication processes
- Observed welding, assembly, and plant operations
- Followed Health, Safety & Environment (HSE) standards

PROJECTS

FYP: h-BN Filled Polymer Coating for Corrosion Resistance

Ongoing

- Developing polymer-based composite coatings reinforced with hexagonal boron nitride (h-BN)
- Evaluating corrosion resistance and barrier performance for industrial applications
- Analyzing material behavior and coating performance under corrosive environments

Laser Welding & Failure Analysis

Dec 2025

- Performed laser welding of Al-2024 and Ti-6Al-4V alloys
- Conducted tensile testing and failure analysis

Alloy Production & Characterization

Apr 2025

- Produced alloys using arc melting and evaluated microstructure

LEADERSHIP

ASM (American Society for Materials) GIKI — Media & Sponsorship Head

Nov 2025

- Organized technical sessions on SEM, XRD, and AFM techniques
- Managed sponsorships, communication, and event coordination

AIAA (American Institute of Aeronautics and Astronautics) GIKI — Media & Logistics Head Nov 2025

CORE COMPETENCIES

QA/QC, Process Optimization, Lean Manufacturing (Basic), Industrial Operations, HSE, Technical Documentation, Team Collaboration

CERTIFICATIONS

Health and Safety Environment (45 Hours)

CPD Workshop – Material Failure Analysis