

Mohammad Sanan Ali

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Nationality: Pakistani

Objective:

To pursue an internship in a challenging environment that is in line with my academic interests and allows me to learn from professionals and experts in the field.

Work Experience:

- Research Assistant | Jan, 2022 to Oct, 2022

Smart Composite Lab, Institute of Space Technology, Islamabad

- Manufacturing of ceramic modified carbon phenolic ablative composites using vacuum bagging and compression molding
- Mechanical testing, thermal and microstructure characterization of synthesized composite samples using TGA, SEM, EDS and XRD
- Article writing and professional correspondence with the National University of Sciences and Technology (NUST), Islamabad

Education:

- Master of Science in Erasmus Mundus- Advanced Materials: Innovative Recycling (AMIR) Program | Sep, 2023 –

University of Miskolc, Miskolc, Hungary

- Bachelor of Science in Materials Science and Engineering | Sep, 2017 to Aug, 2021

Institute of Space Technology, Islamabad, Pakistan

- CGPA | 3.48

- Final Year Project

Fabrication, testing and characterization of modified carbon phenolic composites

Internship and Voluntary Work:

- Administrative Intern | 24th Jun, 2019 to 16th Aug, 2019

TechoStudios (PVT) Ltd. Islamabad

- Team Leader- Material Selection and Design | 13th Sep, 2021 to 24th Dec, 2021

Renegades Motorsports, HITEC University, Taxila Cantt

Online Certifications and License:

- Training Preparation Certification- Transmission Electron Microscope and X-ray Diffractometer | Apr, 2020 to May, 2020
MyScope, Australia
- Registered Engineer with the Pakistan Engineering Council (PEC) | Jan, 2022 - Present

Skills:

- **Digital** | Microsoft Office, Ansys Spaceclaim, VESTA, ORIGINPRO, LaTeX
- **Laboratory** | Metallography, Mechanical Testing (Hardness, Fatigue, Impact, Tensile, Compression), Non-destructive Testing (Dye-penetrant Testing, Magnetic Particle Inspection, Ultrasonic Testing), Vacuum-bagging, Compression Molding, Welding (TIG, MIG, SMAW), Lost-foam Casting
- **Soft** | Communication, Critical Thinking, Team-building, Conflict Management

Semester Projects:

- Mechanical Property Analysis of Different Grades of Carbon Steel
 - Tensile, Charpy Impact and Fatigue Testing of low-carbon and mild steel
- Functioning Wind Turbine using Fiber-reinforced PVC Blades
 - A fully functioning wind turbine with reinforced PVC blades was built that produced up to 10V on full capacity
- Microstructural Study of Cold and Hot-worked Mild Steel
 - Granular structures of cold-hammered and forged mild steel were studied and compared
- Effect of Different Heat Treatments on Microstructural and Mechanical Properties of Mild Steel
 - Mild steel samples were annealed, normalized, and quenched, and their microstructure and tensile properties were obtained

Publications:

- **Ali, Sanan**, Shehryar Ahmad, Abrar H. Baluch, Muhammad Ramzan, Mohsin Saleem, Muhammad Bilal, and Kashif Naseem. "Microstructural and thermal analysis of alumina modified carbon/phenolic composites after ablation testing." *Journal of Composite Materials* (2022): 00219983221147389 (IF: 3.19)
- Ahmad, Shehryar, **Sanan Ali**, Muhammad Salman, and Abrar H. Baluch. "A comparative study on the effect of carbon-based and ceramic additives on the properties of fiber reinforced polymer matrix composites for high temperature applications." *Ceramics International* 47, no. 24 (2021): 33956-33971 (IF: 5.53)

Hobbies:

- Hiking
- Sketching
- Formula 1