**Fazli** subhan

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# Professional Summary

Dedicated mechanical engineer with more than 6 years of experience in Design and 3D Modelling, Additive manufacturing,3D printing,3D Scanning, and quality assurance. Expert in CAD 3D modelling, and skilled producer of documentation and drawings associated with mechanical engineering. Recognized for a keen ability to improve design components, increase product and manufacturing efficiency, and decrease the constant need for Reverse Engineering.

# EDUCATION

**SEP-2022**

**M.SC IN THERMAL SYSTEM ENGINEERING**

U.S.-Pakistan Center for Advanced Studies in Energy (USPCAS-E), University of Engineering & Technology Peshawar, Pakistan

**OCT-2017**

**BSC Mechanical Engineering**

Sarhad University of science and information technology Peshawar, Pakistan

# EXPERIENCE

1. **March 2022 – Present**

**JUNIOR MECHANICAL ENGINEER**, under the PSDP PROJECT “**Establishment of Material Resource Centre and Additive Manufacturing and Reverse Engineering center**” at **PCSIR Labs. Complex Peshawar**

***Responsibilities:***

• Utilize CAD software (e.g., SolidWorks, Creo/Pro-E) to create detailed 3D models of components and assemblies for different industries’ projects.

• Conduct 3D scanning of physical objects using Artec Leo Handheld Scanner and Artec Studio Software.

• Utilize the Artec Leo handheld 3D scanner to capture accurate and high-resolution 3D data of various objects and structures.

• Conduct Reverse engineering tasks to convert 3D scan data into editable CAD models with Geomagic Design X Software.

• Collaborate with engineering and design teams to identify projects suitable for Additive manufacturing and Reverse engineering processes.

• Assist in selecting appropriate materials and 3D printing technologies based on project requirements and constraints.

• Operation and maintenance of different technologies of 3D printers, including FDM, SLA, FGF, FAM, and DED.

• Prepare 3D models for printing using slicing software (e.g., Softshapper, Simplify 3D, FAmufacture, Ultimaker, MX-Lab, XYZprint AMU, Cura).

• Troubleshot and resolve issues related to 3D printing processes and equipment.

• Implement best practices for post-processing of 3D printed parts (e.g., sanding, painting, assembly).

• Coordinate with vendors and suppliers to procure necessary equipment, materials, and software for the center.

• Ensure compliance with safety standards and best practices for additive manufacturing and 3D printing operations.

• Prepare and present progress reports and project updates to senior management.

1. **From March 2018 – Feb 2022**

**MECHANICAL DESIGN ENGINEER**, at **R&D, UNIT#109, Air Engineering Department (AED) Pakistan Air Force (PAF) Badaber Peshawar**

***Responsibilities:***

• Design/3D Modelling using the latest CAD software.

• 3D printing using multiple slicing software (e.g., Simplify 3D, Ultimaker, Cura).

• 3D printing using FDM technology and different bed-size 3D printers.

• Structural and thermal Analysis using Ansys Workbench.

• Perform conceptual detail design of equipment/tester.

• Prepare and manage Data packs.

• Familiarization with different CNC machines and basic machine shop activities.

1. **From Oct 2017 – Feb 2018**

**MECHANICAL ENGINEER**, at **SOLAR ICON and General Works Peshawar**

***Responsibilities:***

* Calculation of Strengths and capacities of beams designing of the support structure.
* Provide Design Engineering for solar-related equipment and products.
* Process customer product Design and Product releases.
* Accuracy of all Design documentation.

# SKILLS

• Proficient in CAD modeling software such as SolidWorks, Creo/Pro-E, and AutoCAD.

• Software Technical proficiencies include ANSYS, Advanced 3D printing Software, Managing Data packs, and Microsoft Office.

• Understanding of geometric dimensioning and tolerancing (GD&T) principles.

• Strong problem-solving skills and attention to detail in design and analysis.

• Basic troubleshooting skills for diagnosing and resolving 3D printing issues.

• Proficient in operating the Artec Leo handheld 3D scanner, including setup, calibration, and scanning procedures.

• Proficient in Geomagic Design X software for processing 3D scan data and generating CAD models.

• Strong leadership and management skills, with experience in leading and motivating a diverse team.

# TRAINING AND CERTIFICATE

• Five days of 3D Scanner Software Training by Ultimate CAD Solutions completed on 15 June 2022.

• Microsoft Office Specialist (Office Word 2013) Certificate Practical Test organized by Pakistan Engineering Council.