Mubeen A.

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SUMMARY

Mechanical Design Engineer specialising in **SolidWorks, CAD/CAE, and prototyping** with experience in custom hardware and sheet metal components. Seeking to leverage technical expertise in developing bespoke **mechanical solutions.**

SKILLS

- **Technical:** SolidWorks, Autodesk Fusion 360, 3D Solid Modelling, Sheet Metal Design, Prototyping, GD&T, Structural Analysis, Thermal Management, Design for Manufacture, CAD/CAE, Python, MATLAB, ROS
- **Professional:** Technical Documentation, Design Review, Cross-functional Collaboration, Problem-solving, Innovation, Project Management
- **Certified SolidWorks Associate (CSWA)** ID: C-69CQ5DUYWG, Issue Nov 2024

WORK EXPERIENCE

Assembly Operator | Husqvarna Group | Feb 2024 - Present | Newton Aycliffe, UK
- Led process optimisation initiatives to increase production efficiency by **12% (275 -> 300 assemblies a day)**
- Applied technical problem-solving skills to improve assembly processes, resulting in a **5% increase** in daily shipping **(552 -> 580 a day)**

FC Associate | Amazon MME2 | Oct 2024 - Jan 2025 | Durham, UK
- Redesigned contingency cart using **SolidWorks and GD&T principles**, achieving a **25% cost reduction (£400 -> £300)**
- Analysed and resolved conveyor belt system issues through structural integrity assessment, increasing shipments by **30% (980 -> 1400 a shift)**

Remote Design Engineer | Tata Consultancy Services Ltd. | Nov 2020 - Mar 2022 | Chennai, India
- Developed mechanical designs for experimental electromagnetic V6 engines using **SolidWorks and Fusion 360**
- Performed static and dynamic analysis in compliance with ISO standards, reducing design iterations by **15%**
- Coordinated with design and manufacturing teams to resolve production issues, improving project efficiency by **21%**

EDUCATION

MSc Robotics Engineering, 1st | Liverpool Hope University | 2023 - 2024
- **Relevant Courses:** Robotics **(77%)**, Artificial Intelligence **(70%)**, Numerical Methods **(100%)**
- **Project:** Bluetooth Smart Lock using Arduino and SolidWorks **(1st)**

BEng Mechanical Engineering, 1st | GCT | 2018 - 2022
- **Relevant Courses:** Computer-aided Design **(1st)**, Machine Design **(1st)**, Finite Element Analysis **(2:1)**
- **Project:** "Design and Fabrication of a 3D-Printed Spherical Gear for Robotic Joints" **(1st)**

PROJECTS & ACHIEVEMENTS

- **Robotic Arm Development:** Ongoing design of a 3D-printed robotic arm using **SolidWorks** that plays chess, integrating mechanical design with **Python and ROS** for control systems
- **PC Building & Testing:** Built and tested **60+ PCs** for a college CAD lab, enabling **550+ students** to learn CAD software

LANGUAGES

English (Fluent), Tamil (Native)

References available on request