


ATIF FURQAAN

Mechanical Engineer | Product Design

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PROFESSIONAL SUMMARY

Mechanical Engineer with 4+ years of UK industry experience delivering production-ready designs and drawings for fabricated steel structures, polymer/molded products, and bespoke enclosures. MSc in Advanced Product Design Engineering (Kingston University London). Expert-level SolidWorks user (CSWE) with working experience in Siemens NX, AutoCAD and Fusion 360. Strong focus on design-for-manufacture, drawing standards, and close collaboration with manufacturing teams and customers from concept and approval through to build.

KEY SKILLS

- **3D CAD & detailing:** SolidWorks (CSWE), Siemens NX, Fusion 360; 2D drafting in AutoCAD
- **Production drawings:** assemblies, fabrication/manufacturing drawings, BOMs, revisions, drawing packs
- **DFM/DFA:** manufacturability reviews, shop-floor support, tolerance considerations and change control
- **Configuration & automation:** Excel-driven parametric, DriveWorks (Xpress) for automated models/drawings
- **Mechanical design:** sheet metal, weldments, mould tools/cavity changes, enclosures & cabinets
- **Engineering analysis (working knowledge):** SolidWorks Simulation; ANSYS Mechanical APDL (basic)

PROFESSIONAL EXPERIENCE

Mechanical Design Engineer / Technical Draughtsman

Imagine Draughting Service, Blackpool

May 2021 - Present

- Create production drawing packs from customer approval through to manufacturing, including assemblies, detailed parts, and BOMs.
- Support multiple client programs simultaneously, adapting to varied industries and deliverable standards.
- **SURPRO LTD:** design galvanized steel access and safety products (walkways, guardrails, ship ladders) to client requirements.
- **Rosehill Polymers:** build parametric SolidWorks models and automated drawings using Excel and DriveWorks; produce mould alteration drawings and cavity updates for product variants.
- **FIBAFORM:** liaise with shop-floor personnel and customers to assess manufacturability/fit, implement design changes, and issue updated drawings for enclosures, cabinets and bespoke fabrications.

Junior Design Engineer

REBO.co.uk, Powys, Wales

Dec 2020 - May 2021

- Reverse engineered outdoor play equipment: measuring, modelling, and producing drawings and renders for manufacturing and supplier handover.
- Developed cost-conscious concepts from sketch to market-ready design, balancing stability, buildability and lead times during seasonal demand spikes.
- Worked within British Standards expectations for safety-critical consumer products and supported rapid turnaround for tightly spaced deadlines.

SOFTWARE & TOOLS

SolidWorks (CSWE), DriveWorks, Siemens NX, AutoCAD, Fusion 360, SolidWorks Visualize, KeyShot, Microsoft Excel, MATLAB, Adobe Illustrator/InDesign.

CERTIFICATIONS

- * CSWP Add-ins: Sheet Metal, Weldments, Mold Tools, Simulation, Drawing Tools, Model Based Definition
- * Certified SOLIDWORKS Expert (CSWE) - Mechanical Design
- * Certified SOLIDWORKS Expert
- * Certified DriveWorksXpress Associate
- Certified DriveWorksXpress Associate
- Certified SOLIDWORKS Expert (CSWE)
- Certified SOLIDWORKS Expert

Credential IDs available on request.

EDUCATION

MSc Advanced Product Design Engineering | Kingston University London

2020 - 2021 | Modules: Computer Integrated Product Development, Advanced CAD/CAM, Green Engineering

BEng Mechanical Engineering | Muffakham Jah College of Engineering and Technology, Hyderabad

2015 - 2019 | Modules: CAD/CAM, Production Drawing, FEA, Thermal Engineering, Refrigeration & Air Conditioning

ADDITIONAL INFORMATION

Portfolio: <https://atif-furqaan-portfolio.wasmer.app/>

References: Available on request