Rehan Yadav

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Education

MA Product Design (Industrial Design)
Academy of Art University, San Francisco — Sep 2025 – May 2027

B.Tech, Mechanical Engineering — **CGPA: 7.96**
Symbiosis Institute of Technology, Pune — Jul 2018 – Jun 2022

Work Experience

CAD Design Engineer, Design Works, Tandemloop Technologies — **Aug 2023 – Nov 2024**
- Spearhead the creation of 3D piping layouts for TFF systems based on P&IDs, including chassis and support design, cable trough placement, and control panel integration.
- Develop BOMs, detailed piping drawings, chassis drawings, and GADs, ensuring accuracy and alignment with client specifications.
- Collaborate with clients on conceptual layouts, ensuring system designs fit floor plans and utilities.
- Reduced mesh count for VR models in collaboration with Motherson, improving performance in virtual environments using Blender, 3Ds Max, Unreal Engine, and Rhino.
- Facilitated communication with L&T on automation software projects, guiding clients through the FORMWORK process and gaining insight into backend automation systems.

Design Intern, GRUPO ANTOLIN — **Jan 2022 – Jun 2022**
- Designed and optimized B-side door panel features using Catia V5R and UG-NX.
- Ensured manufacturability by adhering to industry standards and client specifications.
- Assessed and resolved molding defects, improving quality before batch production.
- Managed design data with Siemens Teamcenter for efficient global collaboration.

Intern, Honda Motors — **Dec 2021**
Intern, Grace Toyota Service Station — **May 2018 – Jun 2018**

Academic Projects

Numerical Simulation & Experimental Investigation of Non-Metal Miniature Heat Exchanger
- Designed a microchannel heat exchanger in CatiaV5 to optimize heat transfer for compact systems.
- Conducted simulations in ANSYS Fluent, improving performance by refining material properties and design.
- Focused on enhancing efficiency, reducing pressure drops, and ensuring high corrosion resistance.
- Developed a lightweight, high-efficiency heat exchanger model suitable for micro-scale technologies like microchips and micro-cameras.

Skills

Software Skills: CATIA, Creo, UG-NX, Solidworks, AutoCAD, AutoCAD Plant 3D, Blender, ANSYS Workbench, ICEM CFD, PLM Teamcenter
Languages known: English (Proficient), German (A1), Hindi (Native)

Extra-Curricular Activities

Core Member, WWR Go-Kart — **Apr 2019 – Mar 2020**
- Engineered individual Go-Kart assemblies using ICEM CFD for precise simulations.
- Executed runs, evaluating skid pad performance, brake efficiency, acceleration, and entry-exit timings.

Collaboration Head & Event Co-Head, V@rSITy Care — **Aug 2018 – Jun 2022**
- Led the PAANI Foundation event in 2019, coordinating large-scale water conservation initiatives.
- Orchestrated donation drives, cleanliness campaigns, and anti-corruption pledge events.
- Won Best Volunteer award in V@rSITy Care for my continuous involvement in all the events held.

Others
- Secured Runner-up position at Entrepreneurship Event, Start-up Weekend 2020, sponsored by Google.
- Directed the Pen Archer event during TECHFEST 2019.