Tejasvi Chhajer

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PROFESSIONAL STATEMENT

Experienced engineer with expertise in CAD (SolidWorks, CREO, AutoCAD), FEA (Ansys, SysWeld), and GD&T. Proven success in DFM, DFA, RCA, Lean manufacturing, Six Sigma, and new product integration. Skilled in welding simulation, thermal/structural analysis, rapid prototyping, tolerance stack-up, and manufacturing process optimization. Strong background in SIOP, ERP systems (SAP, Oracle), time studies, VSM, line balancing, BOM structuring, and cross-functional collaboration

SKILLS

- **Software:** AutoCAD, Solidworks, CREO, Ansys, Matlab, LabVIEW, Python, C, R, LaTeX, ESI SysWeld, EES, Arduino IDE
- **Engineering tools:** FEA, GD&T & stack-up analysis, Simulation, 3D Printing, MIG & TIG Welding, Laser cutting
- **Industrial:** ERP Systems (SAP, Oracle), Continuous Process Improvement, RCA, Lean Six Sigma, Line Balancing
- **Electrical & Control Systems:** Wiring, Sensors, Actuators, Servomotors, Low-Voltage AC/DC Circuits
- **Soft skills:** Problem Solving, Interpersonal Collaboration, Presenting to Technical & Non-Technical Audiences, Ideation

EXPERIENCE

Vertiv - Delaware, OH May, 2024 - Aug, 2024
Advanced Manufacturing Engineering Intern, AC Power

- Created AutoCAD layouts for system level integration in NPI, optimizing product lifecycle & serviceability
- Developed factory readiness planning tool on Excel for inventory, layout, and ramp-up KPIs using SIOP, VSM & time studies
- Developed new Lean-based processes for integrating wall panels, air conditioning units & overhead bus-way channels
- Reduced alignment quality defects by 70 % by designing a bus bar guiding tool on CREO using GD&T & DFM principles
- Prevented a 3-month shipping delay by applying RCA & rapid prototyping a 3D printed part, approved for production
- Designed & integrated wire harnesses & connectors for mobile electric test carts to test the DC battery cabinets

Doosan Bobcat - Bismarck, ND May, 2023 - May, 2024
Manufacturing Co-op, Ops. Strategy & Advanced Manufacturing

- Trained a new hire on Ansys & FEA based weld deformation simulation & documented best practices
- Developed, tested & validated welding deformation simulation using Ansys & ESI SysWeld
- Reduced deformation of weldments by 20 % by conducting FEA-based structural & thermal analysis on Ansys & ESI SysWeld
- Introduced welding simulation capability in a company-wide knowledge-sharing event
- Pitched a new suspension platform on Mini-Track Loader (MTL) prototype to CEO, company executives & customers
- Created MBOM structure & SOP and used MES for system level integration of new mower line
- Implemented 5S & lean practices by designing & fabricating workshop equipment: saw table, tube rack, workbench & storage

UW Madison: Nellis Cryogenic Lab Jan, 2022 - May, 2022
Research Assistant

- Conducted experiments to measure the heat transfer rate through copper at cryogenic temperatures as low as 4 K
- Setup the test rig by wiring thermocouple sensors & utilized EES to collect & process raw data

Gordon Dining and Event Center - Madison, WI Aug, 2021 - May, 2023
Student Supervisor

- Oversaw employee training, performance management & process improvement while serving 2000+ customers

Semi-Autonomous Vehicle Sept, 2021 - Dec, 2021

- Collaboratively directed Solidworks prototyping, 3D printing, coding, & assembly projects with undergraduates
- Designed a manual gear transmission with servo motors& ultra-sonic sensors, resulting in a top-5 finish among 45 vehicles

AWARDS

- Patent application (under-review): MTL Operator Platform Suspension - Bobcat
- James F. Kurick Memorial Scholarship - UW-Madison

EDUCATION

University of Wisconsin-Madison
Bachelor of Science, Mechanical Engineering w/minor in Manufacturing Engineering
GPA: 3.84/4