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Summary: Mechanical Design Engineer (5+ yrs) in CAD/CAE, automation, CI.

CAD/CAE: SolidWorks (FEA/CFD), AutoCAD, Inventor, CATIA, MATLAB.

Analysis: FEA, CFD, GD&T (ASME Y14.5), DFMA, FMEA, stress/thermal.

Automation: PLCs (Allen-Bradley/Siemens), SCADA/HMI, Cognex vision, Fanuc.

Manufacturing: CNC machining, 3D printing, injection molding, BOMs.

Standards: ISO 9001/1219/5199, ASME B73.1, ASTM, ANSI, GMP, FDA, NEC.

Process: Lean Six Sigma, DMAIC, 5S, Kaizen, DOE, root-cause analysis.

Programming: Python (TensorFlow, scikit-learn, pandas), SQL, Visual Basic.

Experience:

- Lead Mechanical Design Engineer (Dec 2023â Present):

  - Disc pump design, FEA/CFD, DFMA; +20% efficiency, -15% cost.

- Automation/Mechatronics Engineer, John Deere Turf Care (Janâ Jul 2023):

  - PLC/HMI/SCADA, sensors, ergonomics +30%, takt time -20%.

- Automation/Process Engineer, SOS (Sepâ Dec 2022):

  - Mold design with FEA/CFD; cost -20%, scrap -15%; VFD throughput +25%.

- Inspection/Automation/Mechanical Engineer, Pfizer (Sep 2021â Sep 2022):

  - CAD/FEA components, FMEA, Cognex vision; GMP/FDA compliance.

- Mechanical Design Engineer (Capstone), Galaxy Products (2018â 2019):

  - CNC pneumatic gang drill; downtime -75%, efficiency +50%; P&ID, FEA/CFD.

Education: B.S. Mechanical Engineering, Louisiana Tech University.

Certs: CSWP, Lean Six Sigma training, PLC Programming (Allen-Bradley/Siemens).