

Alex Chen

Mechanical Engineer

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Austin, TX [LinkedIn](#)

PROFESSIONAL SUMMARY

Mechanical engineer with 5+ years of experience in HVAC design and thermal systems. Proven track record of improving energy efficiency by 20% in commercial buildings. Skilled in AutoCAD, SolidWorks, and CFD analysis.

EXPERIENCE

Senior Mechanical Engineer

2022 - Present

Apex Engineering Solutions

- Led redesign of HVAC system for 500k sq ft office building, reducing energy consumption by 25%.
- Managed a team of 5 engineers to deliver projects on time and within budget.
- Developed CFD models to optimize airflow, improving occupant comfort scores by 15%.
- Implemented predictive maintenance protocols, reducing downtime by 30%.

Mechanical Engineer

2019 - 2022

GreenTech Innovations

- Designed thermal management systems for electric vehicle battery packs, achieving 10% weight reduction.
- Conducted FEA simulations to validate structural integrity under extreme temperatures.
- Collaborated with cross-functional teams to launch 3 products within deadline.
- Authored technical reports and presented findings to stakeholders.

SKILLS

Core Skills: Thermodynamics, Fluid Mechanics, HVAC Design, AutoCAD, SolidWorks, ANSYS, CFD Analysis, FEA, Project Management, Technical Writing, MATLAB, Python

EDUCATION

B.S. Mechanical Engineering

2018

University of Illinois Urbana-Champaign