

Alex Carter

Boston, MA | (123) 456-7890 | alex.carter@email.com

linkedin.com/in/alexcarterme | alexcarterme.dev

Professional Summary

Detail-oriented Mechanical Engineer with over 7 years of experience in mechanical design, HVAC systems, and manufacturing optimization. Proven track record in leading cross-functional engineering teams, managing end-to-end design projects, and improving production efficiency through lean manufacturing principles. Proficient in CAD software and experienced in both R&D and field operations.

Key Skills

- Mechanical Engineering
- CAD: SolidWorks, AutoCAD
- FEA (Finite Element Analysis)
- HVAC System Design
- GD&T
- Project Management
- Lean Manufacturing
- Tolerance Analysis
- Energy Modeling

Professional Experience

Senior Mechanical Engineer

EngineTech, New York, NY | Feb 2021 - Present

- Led a team of 5 engineers in designing automotive mechanical systems.
- Conducted FEA simulations for critical load-bearing components.
- Streamlined design documentation using SolidWorks and GD&T, reducing design cycle time by 20%.

Mechanical Design Engineer

MechSolutions, Boston, MA | Jul 2017 - Jan 2021

- Developed 3D CAD models for industrial mechanical parts using AutoCAD and SolidWorks.
- Collaborated with cross-functional teams to align design with manufacturing capabilities.
- Improved manufacturability by implementing DFM practices.

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HVAC Mechanical Engineer

ClimateControl, Chicago, IL | Jun 2015 - Jun 2017

- Designed HVAC systems for commercial properties; conducted energy modeling and simulations.
- Delivered system designs that exceeded energy efficiency standards by 15%.

Education

B.S. in Mechanical Engineering

University of Michigan, Ann Arbor, MI | Graduated: 2015

Certifications

- Certified SolidWorks Professional (CSWP)
- HVAC Design Certification - ASHRAE
- Lean Six Sigma Green Belt

Projects

- Automotive Suspension Redesign: Reduced material cost by 18% through FEA-based optimization.
- HVAC Retrofit Analysis Tool: Developed an energy modeling tool for assessing ROI on retrofit systems.