




Anthony McMillan

Detail-oriented Mechanical Engineer with 10+ years' experience as an HVAC designer with specialties in cooling equipment. Proven leadership and project management skills that have resulted in cost reductions of up to 19%.


Boise, ID

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SKILLS

Computer Aided Design

Detail-Oriented

Problem-Solving

Creativity

Teamwork

Math Skills

Mechanical Skills

HOBBIES

Welding

Woodworking

Building & Fixing Cars

DIY Home Improvement

EDUCATION

University of Washington

Seattle, WA

2002 – 2006

Electrical Engineering

GPA: 3.7/4.0

CERTIFICATIONS

Professional Engineering
License

2020

Certified HVAC Designer

2019

WORK EXPERIENCE

Senior Mechanical Engineer, Venus Systems

Boise, ID • January 2013 – Present

- Evaluated and improved HVAC designs for cost effectiveness, reducing the cost of materials by 15%
- Collaborated with the Industrial Design team to ensure concepts are functional and can be manufactured
- Provided technical support to clients in solving quality problems with existing products
- Established the project schedule for 4 designs concerning HVAC systems and completed the projects 3 weeks ahead of schedule
- Specified equipment to be purchased using Purchase Requisitions and Bill of Materials
- Organized the installation of the equipment, including coordination with the customer and installation contractors
- Designed components of cooling and heat transfer systems
- Coordinated operations, maintenance, and repair activities for existing projects
- Developed the company's standard methods and procedures for testing products
- Directed 25 engineer personnel in testing and design procedures for new HVAC systems
- Oversaw fabrication and installation activities to ensure products and systems conform to engineering design and customer specifications
- Created project proposals for manufacturing improvements to support client demand
- Prepared project proposals, progress reports, and completion presentations, for management
- Lead design interdisciplinary coordination efforts to ensure delivery of a complete, approved, coordinated work product

Mechanical Engineer, Honey Designs Inc.

Boulder, CO • January 2007 – December 2012

- Performed engineering calculations for things such as heat gain, heat loss, and energy transfer, pressure losses in air duct or hydronic piping
- Performed work in accordance with the Conduct of Engineering (CoE) and applicable Federal, State, and Laboratory codes and standards.
- Prepared conclusions and analysis reports for projects in the automobile, heating, and medical industries
- Devised alternative mechanical structures for medical laser equipment, reducing costs by 19%
- Developed new tools and systems to enhance production of commercial radio equipment
- Provided cost estimates for materials, equipment, and labor for 17+ projects
- Diagnosed and troubleshoot observatory mechanical and electro-mechanical systems
- Worked with team of 12 to design and build cooling equipment for use in laboratories
- Conceived, designed, and prototyped a light-weight antenna for use in car radios
- Played integral role in patent-pending cooling system for blood storage in hospitals