

Title: Mechanical Designer

Matt has experience in HVAC And Plumbing Design, Load Calculations, Equipment Selection, And Energy Analysis

Education: Recently graduated from the California Polytechnic, San Luis Obispo with a Bachelor of Science in Mechanical Engineering and concentration in HVACR.

Professional Affiliations: American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Experience & Qualifications: Matt has experience in HVAC and Plumbing design.

As a mechanical designer, Matt analyzes mechanical and plumbing tasks to determine the best plan of action and perform the necessary calculations. These tasks include building models, analyzing plant performance, pipe sizing, duct sizing, and making equipment selections. Matt utilizes programs such as HAP, AutoCAD, and Revit to accurately model the project at hand.

Matt's education focused on classes pertaining to the HVACR field including thermodynamics, heat transfer, fluid dynamics, thermal system design, building heating and cooling loads, air and water distribution design, and refrigeration principals and design.

PROJECTS:

Lovelock Correctional Site Piping and Boiler Replacement

Matt was part of the design team for the Lovelock Correctional facility. For this project, detailed load calculations were necessary to accurately size the three high capacity boilers that are to be installed. Furthermore, pipe sizing and pressure drop calculations were made to accurately determine the 17,000 feet of piping needed for the facility. Throughout the installation process, the chilled water and heating systems will remain operational, to minimize interfering with the facilities day to day schedule.

Tahoe Forest Hospital Human Resources Remodel

Matt worked on a design team for the Human Resource office remodel at the Tahoe Forest Hospital. In this project, the women's clinic was repurposed into a Human Resources office. The new office building transformed existing examination rooms into large office spaces. The existing ductwork and piping had to be redesigned to serve the new layout while still utilizing the existing mechanical equipment.

University of Nevada, Reno Gateway Study

Matt was involved on the University Nevada Reno Gateway Study. This project required the construction of energy models for future and current campus buildings. These energy models were compiled to represent the central plant load of the UNR campus. This central plant model allowed us to determine whether the current equipment could serve the new campus buildings or if upgrades to the central plant were necessary.
