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# AUSTIN SCHROEDER

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**Title:** Mechanical Designer

**Education:** Bachelor of Science ➤ Mechanical Engineering ➤ University of Nevada, Reno

**Experience & Qualifications:** Prior to AAME, Austin was owner and operator of his own business locally in Reno, Nevada. His gumption accrued experience within the community and has allowed him to excel in interpersonal communication aiding him in the mechanical consulting industry.

Within his role as mechanical designer, Austin will be assisting in a multitude of projects with regards to plumbing and mechanical design. These designs utilize modeling and calculating software such as: Revit, Carrier HAP, AutoCAD, Excel and BIM360. Mr. Schroeder works firsthand with Architects, General Contractors, Electrical Engineers, and fellow Mechanical Engineers to conduct efficient and cost effective new and retrofit construction in the greater Northern Nevada area.

Austin's education included courses in Fluid Mechanics, Thermodynamics, Heat Transfer, Computer-Aided Design and Mechanical Design. With rapidly changing technology, Austin focuses on staying up to date on all new design software and continues to develop project management skills.

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**AUSTIN HAS  
EXPERIENCE IN  
HVAC & PLUMBING  
DESIGN AND LOAD  
CALCULATIONS.**

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## PROJECTS:

LYON COUNTY COURTHOUSE  
REMODEL

CARSON MEDICAL GROUP  
GENERAL PRACTITIONERS'  
MEDICAL OFFICE BUILDING

TRUCKEE MEADOWS FIRE  
PROTECTION DISTRICT - STATION  
42

Austin assisted with the mechanical and plumbing design for the expansion and remodel of the Lyon County Courthouse. This project included new water source heat pumps, ductwork, air distribution units, and connecting into the existing domestic water piping for plumbing fixtures. Austin also performed load calculations on the new and existing portions of the building to ensure the existing mechanical systems could handle the added load.

Austin managed the design and modeling of the new plumbing systems and fixtures for the healthcare facility. Using fixture unit calculations and UPC sizing guidelines, Austin routed and coordinated all new plumbing fixtures and piping. Desiring to land no new equipment on the roof, design challenges were plenty but the Building Information Modeling (BIM) process led to a well-coordinated layout.

Austin participated in the mechanical design efforts for the expansion of the TMFPD Station #42. The building expansion included sleeping quarters and restrooms, and load calculations of the new expansion were utilized to confirm existing equipment capacities were adequate. Being a critical service building, the project placed a heavy emphasis on human safety and thermal comfort.