

**Title:** Mechanical Designer

**Education:** University of Nevada, Reno Bachelor of Science in Mechanical Engineering with a minor in renewable energy.

**Licenses:** State of Nevada, Engineer Intern (EI)

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

**Experience & Qualifications:** Mark has work experience in HVAC and plumbing design, drafting, and manufacturing.

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## MARK HAS WORK EXPERIENCE IN HVAC AND PLUMBING DESIGN, DRAFTING, AND MANUFACTURING.

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In his role as a mechanical designer, Mark performs a plethora of tasks in regards to mechanical and plumbing design, including performing calculations, building models, sizing pipes and ducts, and making equipment selections. These tasks are accomplished by using tools such as AutoCAD, Revit, HAP, Excel, and more on a daily basis. Additionally, Mark employs his AutoCAD skills and experience when drafting to proficiently communicate said designs in an effective manner.

Mark's education as a mechanical engineer includes courses in heat transfer, fluid dynamics, mechanical design, manufacturing, computer-aided design, and more. His minor in renewable energy added courses on energy and sustainability.

### PROJECTS:

#### RENOWN PEDIATRICS SPECIALTY CARE EXPANSION

Mark has played an integral role in the renovation and expansion project of Renown Pediatrics Specialty Care. The project is an overhaul of the previous specialty care wing, which includes replacing a majority of the floor's ductwork/plumbing and changing the function of numerous rooms. Along with this design, Mark was involved in equipment and fixture selection/sizing throughout the wing.

#### WASHOE COUNTY HOMELESS HOUSING PROJECT

Mark is heavily involved in the team handling the Washoe County Homeless Housing Project. This project involves repurposing a number of buildings on the NNAMHS Campus to be occupied as relief for the growing homeless population. Prior to being habitable, all the buildings require improvements including major building renovation/reconfiguration of HVAC systems, plumbing systems, fixtures, equipment, etc.

#### UNR GATEWAY DISTRICT MECHANICAL STUDY

Mark is actively taking part in the UNR Gateway District Mechanical Study. This project involves creating energy models of the mechanical systems and spaces of a majority of the buildings on the campus of the University of Nevada, Reno. These energy models require numerous calculations and will be compiled and analyzed to determine the adequacy of current equipment on the campus with the addition of future buildings.