Mark Martinez, EI

Title: Mechanical Designer

Education: Bachelor of Science ➢ Mechanical Engineering ➢ University of Nevada, Reno.

Licenses: State of Nevada, Engineer Intern (EI)

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

Experience & Qualifications: Mark has five years of experience in HVAC and plumbing design, drafting, and manufacturing.

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In his role as a mechanical designer, Mark performs tasks related to mechanical and plumbing systems design including calculations, building information modeling (BIM), sizing pipes and ducts, and making equipment selections. These tasks are accomplished by using tools such as AutoCAD, Revit, Carrier's Hourly Analysis Program, MS Excel, and more. Additionally, Mark employs his AutoCAD skills and experience when drafting to proficiently communicate said designs in an effective manner.

Mark's education in mechanical engineering includes courses in heat transfer, fluid dynamics, mechanical design, manufacturing, and computer-aided design. His minor in renewable energy included education in sustainable design.

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 was an overhaul of the previous specialty care wing, which included replacing a majority of the department's ductwork/plumbing and changing the function of numerous rooms. As part of this design, Mark was involved in equipment and fixture selection/sizing throughout the wing.

Washoe County Homeless Housing Project

Mark was heavily involved in the team effort for the Washoe County Homeless Housing Project in Reno. This project involved repurposing a number of buildings on the NNAMHS Campus to be occupied as relief for the growing homeless population. Prior to being habitable, all of the buildings required significant improvements including the replacement and reconfiguration of the central HVAC and plumbing systems.

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 at 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.