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# BRENDAN STEVENSON

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**Title:** Mechanical Designer

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

**Experience & Qualifications:** Brendan has experience in HVAC and plumbing design, Revit modeling, AutoCAD, and building load calculations.

As a mechanical designer, Brendan is responsible for designing various mechanical and plumbing systems involving heating, cooling, and refrigeration. His time is focused on duct design, pipe sizing, heating load estimates for buildings, and Building Information Modeling (BIM).

Brendan's education includes classes in thermal science such as Thermodynamics, Heat Transfer, and Fluid Mechanics. His curriculum also includes courses in mechanical design and the computer aided design process. He is certified in SolidWorks GD&T and his experience continues by utilizing software such as Autodesk Revit and AutoCAD, Carrier HAP, and Bluebeam Revu.

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**BRENDAN HAS EXPERIENCE IN HVAC AND PLUMBING DESIGN AND LOAD CALCULATIONS.**

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## PROJECTS:

### CARSON HIGH SCHOOL RESTROOM REMODEL

Brendan was a critical team member for the restroom renovation project at Carson High School in Carson City, NV. The project redesigned the gendered restroom layout commonly seen in public restrooms to an updated general use layout in four separate areas of the school. The scope of the project included removing old plumbing fixtures and associated components, and then modifying existing plumbing piping to serve the new restroom layout. The project also involved redesigning ductwork to serve the general use restroom layout while also meeting code requirements for exhaust air change rates.

### WELLS MUNICIPAL AIRPORT SNOW REMOVAL EQUIPMENT BUILDING

Brendan assisted with the mechanical and plumbing design for a new airport snow removal equipment building in Wells, NV. The scope of the project involved performing load calculations to size and select equipment for providing heating, cooling, and ventilation. The mechanical design consisted of electric unit heaters, a general exhaust fan, and an evaporative cooler. Brendan also aided with the design of ductwork and piping throughout the building using Revit and BIM 3D modeling software.

### WARM SPRINGS CORRECTIONAL CENTER

Brendan was a part of the team that redesigned the HVAC system supplying the kitchen and library of the Warm Springs Correctional Center facility in Carson City, Nevada. The kitchen renovation involved replacing both the existing heating unit and evaporative cooler with a makeup air unit. The system will serve the heating and cooling needs of the space along with the code required kitchen exhaust air change rates. The library renovation included removing and replacing old and antiquated gas/electric rooftop units. Brendan utilized skills using 2D AutoCAD software to help design new layouts for the ductwork necessary for the new units.