

ALISON HAS OVER 15 YEARS OF EXPERIENCE IN HVAC, PLUMBING, GEOTHERMAL EXCHANGE DESIGN AND BUILDING ENERGY MODELING.

## PROJECTS:

UNIVERSITY OF NEVADA, RENO UNIVERSITY ARTS BUILDING

Alison was the Lead Mechanical Engineer working under **DLR** Group for a new Fine Arts Building on the UNR Campus. The building features a 287-seat recital hall, practice rooms, electroacoustic lab, soundproof isolation rooms, green room, and a recording studio; all with strict sound criteria for HVAC **design**. The recital hall is served by a displacement ventilation system slightly serving warmer temperature air at a very low velocity from diffusers located under the seats. This building has very stringent acoustic requirements which were all met or exceeded with our HVAC design.

Title: Principal Mechanical and Fire Protection Engineer, LEED AP BD+C, CPD

ALISON HALL, PE/FPE

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

Licenses: Professional Mechanical Engineer, Nevada: # 021194, California: # M36909, Texas: # 121301, Arizona: # 68221, Utah: # 11136957-2202, Oregon: # 94338PE, New Mexico: # 25454, Professional Fire Protection Engineer, Nevada: # 021194

**Professional Affiliations**: American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), American Society of Plumbing Engineers (ASPE), Society of Fire Protection Engineers (SFPE)

**Experience & Qualifications**: Alison has over 15 years of experience in HVAC and Plumbing design, Geothermal Exchange design, and building energy modeling. Alison has been a Principal of the firm since 2018.

Alison also has experience in the area of energy analysis and measurement and verification of high-efficiency equipment performance as well as continuing education with AutoCAD MEP and Revit software, and building energy modeling.

As a design engineer, Alison has performed thorough energy analyses on buildings of various sizes using energy analysis software including Carrier HAP, Energy Pro, Energy Plus, and DOE-2's eQUEST.

Alison is responsible for HVAC and plumbing system design and oversight, geothermal exchange design, building energy modeling, report writing, specification writing and construction administration.

## DBE/SBE/WBE Certificate No. NV20934569NUCP

MASHOE COUNTY SCHOOL DISTRICT WILDCREEK HIGH SCHOOL

Alison was the Lead Mechanical Engineer for this new 280,000 square foot, three-story building which provides a state-of-the-art education space with capacity for 2,200+ students and includes 40 general learning rooms, 11 science laboratories, 15 shared group rooms, 17 specialized laboratories for art, media, and career tech, a 425-seat performing arts center, and two gymnasiums. The mechanical system consists of six 6pipe water-to-water heat pumps that provide heating hot water and chilled water to 11 custom air handlers. The heat pumps accept/reject heat from/to a ground loop bore field with 384 holes at 380 feet deep.

UNIVERSITY OF NEVADA, RENO PALMER ENGINEERING RENOVATION

Alison was the Lead Mechanical Engineer for a complete renovation of the historic Palmer Engineering originally building, which was constructed in 1941. A new four-pipe fan coil system was designed for this building to provide the new laboratory classroom spaces individual and temperature control that they did not previously have. Palmer Engineering is included as a historic structure in the University Historic District. The University's Facilities Services and Design Team worked with the Nevada State Historic Preservation Office on this project in order to keep standards for the treatment of this historic property.

**Ainsworth Associates Mechanical Engineers**