

**Title:** Associate

**Education:** 1976 Arizona Institute of Drafting and Design

**Continuing Education:** Codes, Energy Conservation

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

**Experience & Qualifications:** Mr. Carvin has over 40 years' experience in HVAC and Plumbing Design for a wide range of building types. Project experience includes design of large and small projects starting at the schematic phase following through to construction administration. Mr. Carvin has specialized experience in schools, laboratories and remodel work. Mr. Carvin is responsible for HVAC, plumbing and specification writing and construction observation work. The most enjoyable projects are working throughout the rural areas Nevada.

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BUILDINGS

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## PROJECTS:

UNIVERSITY OF NEVADA, RENO  
KNOWLEDGE CENTER

UNIVERSITY OF NEVADA, RENO  
CHEMISTRY BUILDING REMODEL

WASHOE COUNTY SCHOOL  
DISTRICT WILDCREEK HIGH  
SCHOOL

David was the lead mechanical designer for the UNR Mathewson 1GT Knowledge Center, which is proudly one of the most technologically, advanced libraries in the country. Construction for the project was completed in 2008 and took 24 months. The construction cost was estimated at \$70 Million with \$9 Million being the mechanical portion. This 295,000-square-foot, five-story building still to this day is the most prestigious building on the campus.

This project now under construction, David was the lead mechanical designer responsible for HVAC and Plumbing design of this very complicated renovation of first floor in a 50 year old building. The project includes a complex laboratory HVAC system including 40 fume hoods and other laboratory equipment. The existing built up 135,000 CFM air handler supply fan was replaced with a new Fan Wall. Space constraints of an older building made this project very challenging.

This new 300,000 sq. ft. High School under design is the School district largest project they have taken on. The mechanical system is comprised of a geothermal exchange bore field consisting of 384 bores 300 feet deep in conjunction with a ground coupled central plant serving multiple Air handling Units with VAV reheat air distribution system. David is responsible for the entire HVAC and Plumbing design of the school and all of the outbuildings.