



Title: Senior Mechanical Engineer

Education: Bachelor of Science ➤ Engineering Technology ➤ California Polytechnic State University, San Luis Obispo.

Professional Affiliations:

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), American Society of Plumbing Engineers (ASPE)

Continuing Education: HVAC Controls, AutoCAD, Fire Suppression

Licenses: Mechanical Engineer, California: #M33577, Nevada: #030849

**DAVE HAS OVER 23
YEARS OF EXPERIENCE IN
HVAC, PLUMBING AND
SITE DEVELOPMENT
DESIGN.**

Experience & Qualifications: Dave has over 23 years of HVAC and Plumbing design experience. Working for the State of California, he performed design work for Cal Fire. He also designed facilities for multiple other departments throughout the state through the Department of General Services. His most impactful work was as Technical Lead for the Office of Statewide Health Planning and Development (OSHPD) where he drafted code amendments and focused on infection control in the built environment of the healthcare industry. Dave currently serves on the Technical Committee for ASHRAE 170, *Ventilation of Healthcare Facilities* and serves on the Board for the Northern California Chapter of the American Society of Plumbing Engineers as VP, Technical. Recognized for his expertise in infection control, Dave was asked to assist multiple public entities throughout California to guide their response to the COVID-19 pandemic.

Prior to his A&E work, Dave spent several years as an aircraft structures engineer including development work for Boeing Commercial Aircraft and the manufacture of several satellites. He has also acquired professional registrations and experience in the investment industry.

PROJECTS:

MULTIPLE CAL FIRE FACILITIES

Performed at Previous Employer

Dave provided mechanical, plumbing, and site development design services for many remote locations throughout the State of California, including conservation camps for the Department of Corrections and firefighter hydrant training facilities. Dave has helped develop multiple private water, fire suppression and sewer systems for municipalities, and performed fatigue analysis of firefighting aircraft structure.

SACRAMENTO STATE UNIVERSITY AQUATIC CENTER

Performed at Previous Employer

Dave helped design mechanical and plumbing design for the new educational boating facility at Lake Natoma. Dave provided design for multiple buildings on a peninsula site including a main building with locker rooms, meeting rooms and administration office, a large boat storage building, and a gymnasium. Systems included domestic water boost, site storm drainage, and multiple DX cooling systems.

MULTIPLE HEALTHCARE FACILITIES

Performed at Previous Employer

As technical lead with OSHPD, Dave consulted with multiple design firms throughout the United States to refine the design of healthcare facilities in the State of California, including primary care hospital towers, outpatient and surgical clinics, and pharmaceutical compounding suites per USP 797/800. Dave managed critical decisions regarding medical facility design to ensure compliance with State and National standards and the health of the patients and staff.

Ainsworth Associates Mechanical Engineers
