

Title: Mechanical Designer

Education: Recently graduated from the University of Nevada, Reno with a Bachelor of Science in Mechanical Engineering and minors in Mathematics and Unmanned Autonomous Systems.

Licenses: State of Nevada, Engineer Intern (EI)

Experience & Qualifications: Mr. Kerver has experience in HVAC and Plumbing design and specializes in AutoCAD and Revit modeling.

As a mechanical designer, Mr. Kerver investigates and performs calculations necessary for mechanical and plumbing design tasks such as duct sizing, equipment selection, pipe sizing, and plumbing fixture selection. Mr. Kerver also uses energy analysis software to determine efficient systems suitable for buildings analyzed. He is also responsible for compiling the energy modeling results into reports to relay and make suggestions for the analyzed building based upon the results.

Mr. Kerver's education includes classes in the thermal sciences including thermodynamics, heat transfer, and fluid dynamics. His Unmanned Autonomous Systems Minor included courses in Aerodynamics, Digital Controls, and Flight Control Simulation.

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PROJECTS:

UNIVERSITY OF NEVADA, RENO
PENNINGTON ENGINEERING
BUILDING

Cruz was part of the design team for the new Pennington Engineering Building located at the University of Nevada, Reno. This 95,000 square foot building includes laboratories, support spaces, and a state-of-the-art clean room. The mechanical system consists of custom roof top air handling units, variable air volume terminal units, and venturi air flow control valves. The Pennington Engineering Building is scheduled to open in the fall of 2019.

WASHOE COUNTY SCHOOL
DISTRICT
WILDCREEK HIGH SCHOOL

Cruz is part of the design team for a new high school located in Sparks, Nevada. This 300,000 square foot building includes two gymnasiums totaling 26,000 square feet, a theater, various laboratories, a full kitchen, along with many other support spaces. The mechanical system consists of a ground loop bore field that accepts/rejects heat from six-pipe water-to-water heat pumps. The heat pumps serve various fan coils throughout the building as well as variable air volume systems with 11 custom air handlers. This high school is scheduled to be open in the fall of 2022.

TRUCKEE MEADOWS COMMUNITY
COLLEGE
SPORTS AND HEALTH COMPLEX

Cruz was part of the design team for the new Sports and Health Complex at Truckee Meadows Community College. This 20,000 square foot building includes three exercise rooms, a weight room, an 8,500 square foot gymnasium, and support rooms. The mechanical system consists of eight rooftop units, two of which serve perforated fabric ducts that run along the top of the weight room and gymnasium. This building is scheduled to be completed in the fall of 2019.