

DOCKETED

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BRETT FOOKS, P.E.

SENIOR MECHANICAL & PROFESSIONAL ENGINEER

Visionary, analytical and high-performance engineering professional with a proven record of accomplishment in leading the planning and design of projects including HVAC systems and plumbing systems. Expertise in conducting the research, feasibility, analysis, cost estimation, design, and installation of systems and components to meet project requirements and client specifications. Experienced in various 3D CAD packages, while partnering with interdisciplinary teams in handling system design specifications, resolving coordination issues, and providing technical expertise.

- **Mechanical Engineering**
- **Complex Problem Resolution**
- **Project Management**
- **Systems Concept & Design**
- **Construction Processes**
- **Strategic Planning**

PROFESSIONAL EXPERIENCE

California Energy Commission – STEP **Sacramento, CA** **2/2014 – Present**

The Commission ensures that energy facilities (power plants) are authorized in an acceptable manner. The division prepares environmental documentation for the Commission as required by the California Environmental Quality Act (CEQA).

MECHANICAL ENGINEER

Provide independent engineering analysis for various technical areas with an emphasis on Hazardous Materials, Worker Safety, & Fire Protection.

- Prepared engineering analysis for Hazardous Materials for the Redondo Beach Energy Project

Capital Engineering Consultants, Inc. **Rancho Cordova, CA** **6/2004 – 2/2014**

A leader in mechanical engineering design in Northern California since 1947 specializing in areas including K-12 Education, Higher Education, Civic and Justice, and Healthcare.

SENIOR ENGINEER, ASSOCIATE

Manage the design, project specification, calculations and cost estimations for new and renovated construction projects.

Oversee and supervise the daily workload, mentoring, and quality control for an assigned junior engineer.

- Plan and monitor the workload of projects, while preparing and taking responsibility for the concept of and preliminary engineering solutions for the detailed design phase.
- Implement the detailed design engineering of HVAC systems; code review, heating and cooling load calculations, air-flow requirements, ductwork sizing and layout, piping sizing and layout, equipment selection, and system controls with an emphasis on healthcare facilities.

Select Accomplishments

- Assisted in the implementation and teaching of new 3-D modeling software, CAD-MECH, to team members for the Sutter Health Eden Medical Center.
- Worked with co-workers to create and implement standards for plumbing calculations firm wide leading to an increased efficiency.

EDUCATION

STATE OF CALIFORNIA ~ LICENSED PROFESSIONAL ENGINEER

Member ~ ASPE

BACHELOR OF SCIENCE ~ MECHANICAL ENGINEERING (2004)

California Polytechnic State University, San Luis Obispo

Computer Literacy: Proficient in the use of various software applications including Microsoft Office (Word, Excel, PowerPoint, Outlook) AutoCAD 2012/2013, Revit 2013/2014, Visio, NavisWorks, and ProjectWise.