

# BEN LARSON

## Mechanical Engineer, P.E.

Mechanical engineer and designer licensed in HVAC and Refrigeration. Skilled at all aspects of the design, development, and testing process across various project types. Strong attention to detail and commitment to accuracy. Hardworking self-starter dedicated to continuous improvement. Flexible, adaptive problem-solver adept at developing innovative solutions and approaches to complex engineering problems.

### PROFESSIONAL EXPERIENCE

#### **Mechanical Designer**, Henderson Engineers

March 2020 - Present | Los Angeles, CA/Denver, CO

- Use modeling software to draft, design, and develop mechanical systems including splits, packaged heating and cooling, VAVs, VRF, and hydronic systems.
- Draft and design mechanical systems for project types including mixed use, multi-family, schools, hotels, office tenant improvements, and retail applications.
- Develop projects in accordance with design codes: International Mechanical Code, CA Building Energy Efficiency Standards (Title 24), California Mechanical Code, etc.
- Produce mechanical drawings, schedules, details, and controls independently for an engineer of record to review; create technical reports, proposals, and presentations to communicate design concepts, project status, and performance results.
- Manage construction administration responsibilities including reviewing mechanical equipment submittals and responding to RFIs.
- Interface with clients, architects, project managers, and other engineers to develop solutions that meet design specifications, budget constraints, and project timelines.

#### **Mechanical Design Intern**, Henderson Engineers

Summer 2019 | Los Angeles, CA

- Utilized Revit and AutoCAD to develop ductwork and mechanical piping drawings.
- Updated models, created sheets and views, revised title blocks, and problem-solved Revit issues to provide Building Information Modeling support on multiple projects.
- Performed Trane Trace load, static pressure takeoff, and duct-sizing calculations.

#### **Mechanical Engineering Intern**, Critchfield Mechanical, Inc.

Summer 2018 | San Jose, CA

- Supported design process for heat and air conditioning zoning and ductwork routing for Facebook's commercial office spaces.
- Ensured project met California Title 24 building energy efficiency regulations.
- Performed mechanical design calculations including heating loads, air conditioning loads, and plumbing calculations for buildings.

### SELECT PROJECTS

**OCVIBE**, Anaheim, CA: Mechanical lead designer during CA phase of 250,000 sq. ft mixed-use project.

**Central Station**, Phoenix, AZ: Mechanical lead designer during CA phase of 500,000 sq. ft residential high rise project.

**Marriott Radnor**, Radnor, PA: Mechanical lead designer on four-story Marriott hotel.

**755 Los Angeles**, Los Angeles, CA: Mechanical lead designer on 40,000 sq. ft. office TI.

**Apple Store**, Portland, OR: Mechanical lead designer on Apple Store.

**State Street Village**, Redlands, CA: Assisted lead engineer on a 500-unit mixed use residential apartment complex.

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### EDUCATION

#### **BS, Mechanical Engineering**

California Polytechnic

State University

2019 | San Luis Obispo, CA

### LICENSES

#### **Professional Mechanical Engineer: HVAC and Refrigeration**

State of California License (M 41553)

### KEY STRENGTHS

**Modeling:** Mechanical lead designer for various types of projects. Skilled at designing mechanical systems for mixed use, multi-family, residential high-rise, retail applications, and office tenant improvements (TI).

#### **Collaboration & Communication:**

Use strong interpersonal skills to effectively communicate and collaborate with a variety of stakeholders and cross-functional teams. Balance client needs, code requirements, and budgets. Flexible, adaptable approach to handling changing project requirements and priorities.

**Creative Problem Solving:** Develop responsive designs rooted in dedication to continuous improvement. Remain current on latest technologies and industry trends. Quickly develop and integrate knowledge of design codes and efficient energy regulations to create innovative, compliant designs.

### SKILLS

Revit

Bluebeam

Trane Trace 700

PsyChart

AutoCAD

Microsoft Office

Problem Solving & Collaboration