

Mark J. Loeks

Sr. Mechanical Designer

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Summary of qualifications & skills

22+ years experience in Mechanical HVAC, Piping, and Fabrication design.

- Mechanical Systems design engineering
- AutoCAD r2008 2D & 3D
- **Microstation,3D PDS/PEHVAC**
- **Autodesk MEP/REVIT 3D**
- Equipment selecting and sizing
- Process exhaust systems
- Hydronics piping
- Word, Excel
- Equipment layout
- System flow diagrams
- Ductwork & piping plans, sections, and details
- Various vendor supplied equipment selection software
- Systems load calculations

Education

- Bass Memorial Academy-General Studies
- University Southern Mississippi-General Business
- Pioneer Pacific College – Design drafting/AutoCAD
- Portland community College-General Studies
- Autodesk MEP/REVIT 3D training course: Certified

Work experience

2000 to Pres. **Jacobs Engineering (Lake Oswego, OR)**

Sr. Mechanical Designer

Lead mechanical 3D & 2D designer, leading 2-4 designers with various semiconductor clients (Intel, SEH, Fujitsu, Atmel, Rockwell, Wafer Tech, Cypress) on clean room facilities: process exhaust systems, ventilation systems, hydronic utility systems, and process tool hook-up. (Global Sites)

Lead mechanical 3D & 2D designer for various pharmaceutical clients (Novartis, Wyeth, Amgen) with Bulk facilities: process exhaust, ventilation systems, and hydronic systems. (Global Sites)

Lead mechanical 3D & 2D designer, leading 2-4 designers with Solar Chip manufacturing client Sun Power, on clean room facilities: process exhaust systems, ventilation systems, hydronic utility systems, and process tool hook-up. Lead mechanical designer for MATS military facility central plant and automotive service plant ventilation and exhaust systems. (Oregon)

Lead HVAC designer, leading 2-4 designers for Stanford Linear Accelerator Center (SLAC) on Facilities ventilation, exhaust systems. (Stanford University, Ca.)

Lead Mechanical Designer for UC Davis on various facility projects (UCLA, Ca.)
Mechanical Designer for Johnson Space Center on various facility projects
(Texas)

Lead Mechanical Designer for Climax mining facility on Labs, and various facility
projects. (Colorado)

Mechanical and Equipment layout Designer for TransAlta Centralia power
generation facility. Retro fit and replacement of two fly ash loaders.

Mechanical and Equipment designer for SPNewsprint on various projects
Mechanical Department CAD Lead.

1998-2000. **Burns Delatte & McCoy (Houston, TX)**

Sr. Mechanical HVAC Designer

Lead HVAC designer for Various Hospitals, commercial facilities, k-12, and
universities on facilities exhaust, ventilation systems, and hydronic systems.

1996-1998. **Gulf States Metal Products Inc. (Purvis, MS)**

General Manager

Responsible for managing all aspects and departments of a metal fabrication
corporation including, marketing, design and fabrication of products, purchasing,
job costing, quality control, budgeting, personnel, research and development.
Oversee operations of production manager and office manager. Work in
conjunction with stockholder in special projects and assignments.

1992-1996. **CRSS/Jacobs Engineering (Lake Oswego, OR)**

Mechanical Designer

Mechanical designer with various semi-conductor clients on facilities process
exhaust systems, ventilation systems, hydronic utility systems, process tool
hook-up. Piping designer for various pulp&paper clients on facilities hydronic
systems.

1989-1992. **Locating Inc (Portland, OR)**

Lead Forman for utility field surveying & drafting

Responsible for 4-9 people, field Locating and marking location of underground
utilities, draft field sketch drawings of underground utilities for contractor's
excavating properties.

1978-1989. **Gulf States Metal Products Inc. (Purvis, MS)**

Lead Designer & Plant Manager

Responsible for managing in all aspects and departments of a metal fabrication
corporation including, design, fabrication and production of product, marketing,
purchasing, job costing, quality control, budgeting, personnel, research and
development.

References available.