

# Senior Mechanical Engineer Consultant

ROBERT SMITH

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## Objective

A dedicated senior Mechanical Engineer skilled in a variety of engineering environments and capacities including product development, mechanical design, electronics packaging, automated equipment, solid modeling, production documentation, project management, manufacturing and machine shop processes. Utilizes strong organizational, planning, communication, analytical and problem solving skills to improve operational efficiency and achieve organizational goals.

## Skills

Solidworks, microsoft office.

## Work Experience

### Senior Mechanical Engineer Consultant

**ABC Corporation** - November 2003 - December 2009

- Provided mechanical design and analysis in support of various projects for various customers
- Lead Project Engineer of the design team in the development of an ion beam measurement and calibration device for use in semiconductor manufacturing equipment.
- Traveled to customer site to define project scope and requirements, generated conceptual design meeting the customers requirements and design restrictions, held design reviews and reported progress on a regular basis.
- Refined the design and performed modal and thermal analysis as needed to insure system performance and reliability.
- Generated some & reviewed all piece part and assembly drawings.
- Designed and documented lift / installation tooling.
- Generated BOMs and assisted procurement as needed in sourcing parts & materials for prototype.
- Performed detailed tolerance analysis study on a customer designed server chassis to insure there would be no assembly issues.

### Senior Mechanical Engineer

**ABC Corporation** - 2000 - 2003

- Prepared mechanical systems design, including cooling and heating load calculations, system layout, mechanical equipment selection, and specifications.
- Lewis and Clark Community College, Godfrey, Illinois Designed HVAC system for a new School of Nursing building.
- Other buildings served by the chilled water and hot water plants were the Math-Science, and Commons Buildings.
- Total project costs were estimated at approximately [ ] Lewis and Clark Community, N.O.
- Nelson Campus Edwardsville, Illinois Designed HVAC system for an expansion of a college campus involved the renovation of an historic building and consisted of a VAV air-handling unit and terminals with hot water coils to provide space temperature control.
- Project scope also included expansion of existing chilled water plant and cooling tower capacity.