

ROBERT SMITH

Senior Mechanical Engineer/Coordinator

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SUMMARY

Over 10 years of Product Design, 18 years of programming on multiple platforms, 3 years of developing Product Configurator applications, and a multitude of other disciplines, with a strong emphasis on system and process automation.

CORE COMPETENCIES

Computer Skills: Pro/Engineer 2000i2, Wildfire 2.0/3.0, Microsoft Word/Excel/PowerPoint, Windows XP/7, Corel Draw, Adobe Photoshop CS, MS Frontpage 2003, Solidworks 2010 Training, FAA Airframe & Powerplant License.

PROFESSIONAL EXPERIENCE

Senior Mechanical Engineer/Coordinator

ABC Corporation - 1998 – 2003

Key Deliverables:

- Collaborated in engineering team in definition and final design of spacecraft main body structures.
- Interfaced with various engineering departments to define technical requirements & to support manufacturing, define producibility and interfacing with customer to ensure that program requirements are met.
- Performed conceptual design and trade studies based on customer requirements, vehicle expected life, spacecraft mass budget and thermal properties.
- Created design layout and generated 3-D CAD parts, assembly & installation models and 2-D drawings using Pro/Engineer software for spacecraft structural systems, electro-mechanical components and tooling fixtures.
- Collaborated with manufacturing engineers & vendors to resolve fabrication issues.
- Produced detail drawings, notes, assembly instructions and bill of material (BOM).
- Created Engineering Change Orders (ECO) to fix design issues discovered during fabrication or assembly phase.

Senior Mechanical Engineer

ABC Corporation - 1996 – 1998

Key Deliverables:

- Mechanical Engineering support of RF modules in production and mechanical design of new modules.
- Performed thermal and stress analysis on carrier plate assemblies with thin film networks on alumina substrates.
- Evaluated materials and designs for hermetically sealing modules with laser welding.
- Performed dimensional analysis on critical assemblies.
- Designed and directed tests for evaluating new sources of supply of critical parts.
- Designed assembly tooling for manufacturing.