

ROGER W. BEST

Carlsbad, California 92010

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QUALIFICATIONS

Engineering Professional with extensive experience in automotive, aerospace, product development and machine design. Experience in leading design teams in the concept, design, and development of engineered products. Advanced proficiency in Pro-Engineer, Catia, and various other commonly used CAD systems. Clearances: Top Secret-DOD (Active), Top Secret-Special Projects (Inactive), Top-Secret-SSBI (Inactive).

Education: MBA, BSIT, pursuing an MS in Product Development Engineering - USC

PROFESSIONAL GOALS

I am looking for a long-term position that would best utilize my education and prior work experience. I prefer to work as a permanent employee. I would also like to work in a position that uses my MBA knowledge, such as project management, business development or marketing. I will not relocate outside of Southern California.

PROFESSIONAL EXPERIENCE

NORTHROP-GRUMMAN, Rancho Bernardo, California 2005-Present

Senior Engineer

- Currently working in the subsystems group on the Advanced Technology Development Center program.
- Lead an installation project for a new aircraft antenna system on the Global Hawk Unmanned Aerial Vehicle program.
- Coordinated the mechanical design on a ground station for the Fire Scout unmanned helicopter.
- Helped to develop a statement of work for the ground station. Interfaced with suppliers and collaborated closely with other members of the engineering department to finalize time critical portions of the project.
- Utilized CATIA V5 in the design of primary structural components for the N-UCAS unmanned fighter jet.

ROCKWELL-COLLINS (Contracted by Qualstaff), Carlsbad, California 2004-2005

Senior Designer

Developed tooling for the fabrication of head mounted displays for military applications. Involved in product design of head mounted displays and peripheral equipment utilizing Pro-Engineer Wildfire 2.0.

- Designed electro-mechanical enclosures of controllers for heads-up displays. Designed tooling fixtures for test and assy.
- Designed and created prototypes, instructed production personnel on the assembly procedures to streamline building of electronics enclosures. Worked on designing portions of heads-up displays for military applications.
- Collaborated with marketing to design custom prototypes for presentations at trade shows.

BOEING SPACE & INTELLIGENCE SYSTEMS, Seal Beach, California 2003-2004

Engineer/Scientist

Produced animations for the business development department using 3DS Max, Pro-Engineer, CATIA V5, Solidworks, Adobe Premiere, Adobe After Effects, and various other applications. Translated CAD models to create realistic animations; created DVD's for use in proposals and demonstrations.

- Modeled complicated part and assembly CAD models, which were then translated into 3DS Max.
- Created complex animations and renderings depicting overall project level scenes of TS programs for the military.
- Performed non-linear editing to develop DVD's of select corporate presentations; edited the video, sound, and DVD menus to burn the final projects to DVD.

NORTHROP-GRUMMAN (Contracted by Chipton Ross), Rancho Bernardo, California 2002-2003

Senior Designer

- Designed subsystems tube and hose routing assemblies, with Pro Piping, for the Global Hawk Unmanned Aerial Vehicle program in collaboration with the Mechanical Subsystems group.

DRS SENSOR SYSTEMS (Contracted by Pro Source), Torrance, California 2001-2002

Senior Designer

- Involved in the design, layout, and detail of opto-mechanical infrared sights. Managed prototype production – from conceptualization through fabrication.
- Packaged opto-mechanical and electro-mechanical projects with Pro-Engineer 2001, also used Intralink 3.1.
- Collaborated with senior management on the development of new designs. Coordinated manufacturing with external suppliers to fabricate complex machined parts. Organized and coordinated designs with the optical engineer regularly.

DRS SENSOR SYSTEMS - *Senior Designer – (Continued)*

- Developed an Access database to log errors, failure mode and effects analysis, for several software projects.
- Built ten workstations; streamlined installation through ghost procedures to copy data from the master PC.

XCELLSIS FUEL CELL ENGINES (Contracted by B & M Associates), Poway, California 1999-2001

Senior Designer

- Managed all tooling mechanisms, test stand structures, and fixturing for the assembly of fuel cell engines. Executed the design, layout, detail components, and assemblies with Pro-Engineer and Intralink PDM.

EATON LEONARD (Contracted by Selective), Carlsbad, California 1999

Senior Designer

- Designed Tube Bending Machines and managed the designs end-to-end using Pro-Engineer, ProPDM, and ASME-Y14.5M.

SOLAR TURBINES (Contracted by CDI), San Diego, California 1996-1999

Senior Designer

- Designed, developed, and detailed large turbine engine structural/internal components and assemblies. I modeled nozzles, blades, and other intricate aluminum castings using Pro-Engineer. Also used ProPDM and ANSI-Y14.5M.

LAWRENCE LIVERMORE NATIONAL LABORATORY (Contracted by Onsite), Livermore, California 1996

Senior Designer

- Designed mechanisms and mechanical components in development of the National Ignition Facility-Laser Activated Fusion Program with Pro-Engineer and ANSI-Y14.5M.

DELCO SYSTEMS OPERATIONS (Contracted by A.M. Engineering), Santa Barbara, California 1993-1996

Senior Designer/Associate Engineer

- Directed the design of mechanical systems for a military light armored vehicle, electro-mechanical packaging, and an intricate hatch design from conceptualization through to fabrication; utilized Pro-Engineer, Cadra, and Cadam.
- Developed a sophisticated hatch design with over 40 components; conceptualized, developed, and advanced the project. Collaborated with the manufacturing department on fabrication and assembled prototypes. Trained offsite personnel on the production process in advancement of manufacturing.
- Served as a liaison engineer between Delco Engineering and Diesel Division of General Motors manufacturing.

From 1988-1993: I worked in aerospace as a Senior Design Engineer and as a Team Leader over eight engineers.

From 1979 – 1988: I worked in the automotive industry developing automation equipment such as test stands for engines and transmissions; I worked on a test stand for the Dodge Viper engine. I also designed transfer equipment, conveyor systems, press welders, checking fixtures, and I also worked on control systems for three of those years.

Additional roles: Senior Tool Designer/Checker, D3 Technologies; Senior Tool Designer, Boeing Aircraft Company; Senior Engineer, Lucas Assembly and Test Systems; Team Leader/Tool Design Specialist, McDonnell Douglas Corporation; Senior Designer, Pure-Pak; Senior Engineer, Lucas Assembly and Test Systems. Member of Mensa.

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, California

Master of Science in Product Development Engineering, MS, in-work

PEPPERDINE UNIVERSITY, Malibu, California

Master of Business Administration, MBA, 2008

UNIVERSITY OF PHOENIX, Del Mar, California

Bachelor of Science in Information Technology, BSIT, 2002

ART CENTER – COLLEGE OF ART AND DESIGN , COLLEGE FOR CREATIVE STUDIES (CCS) - COLLEGE OF ART AND DESIGN, and PHILPOT SCHOOL OF AUTOMOTIVE BODY DESIGN

TECHNICAL EXPERTISE

*ASME Y14.5M, Pro-Engineer, Catia, Unigraphics, Intergraph, Solidworks, Cadam
3DS Max, Photoshop, C, C++, Visual Basic, SQL, Access, Excel, HTML, Windows XP, and Unix*