

VINCENT W. BROWN

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Professional Background

Broad experience in design, production, and management of mechanical design projects in various high tech industries. I am successful at developing creative design solutions and managing multidiscipline design teams. My expertise developing cost effective alternative solutions for fluid R & D projects to achieve goals and project objectives is proven. Highly efficient using various CAD packages including: Pro-Engineer, Wildfire, SolidWorks, Inventor, and AutoCAD. I display strong organizational skills as a senior member of design teams with proven ability to influence and drive activities that deliver results. I am also a US Citizen.

Design Skills

Engineering Software

- Pro/E 19, 2000, 2000i2, Pro/E 2001, Pro/E Wildfire 1.0, 2.0, 3.0 (15,000+ Hours);
- SolidWorks 2003, 2004, 2005, 2006 (5,000+ Hours);
- Microsoft Office (Visio, MS Project, Word, Excel, Access, and PowerPoint);
- Agile, Pro Intralink and SmarTeam PLM Applications;

Mechanical Design

- Ability to develop new complex conceptual designs;
- Strong analytical problem solving skills;
- Top down design and large assembly management;
- Aluminum casting and plastic injection molding design;
- Sheet metal enclosure design;
- Electro-mechanical assemblies and design fixtures;
- Thorough understanding of machining and welding techniques;
- ASME Y14.5M - 1994 standards, including GD & T standards;
- Familiar with MIL-STD-100 standards;
- Strong communication skills;

Patents

Co-inventor of an automated lighting instrument Patent # **US D439,356 S**.

Design Experience

Blue Wave Engineering (Palo Alto, CA) Feb. 2006 – Present
Principle Consultant / Partner - created a new mechanical design division of Richard A. Keller, Inc. called Blue Wave Engineering. Responsibilities include developing division business plan and execution strategy, managing new customer contracts and proposals, provide hands on mechanical design consulting support, and manage accounting duties for new business division.

TAC Worldwide (Santa Clara, CA) Feb. 2006 – Present
Senior Mechanical Design Consultant – provide product development expertise related to diverse mechanical design projects. Provide client onsite / offsite mechanical design support utilizing Pro-Engineer Wildfire, SolidWorks, Inventor and AutoCAD 3D CAD applications.

Current Projects:

BAE Systems (Santa Clara, CA) Feb. 2006 – Present
Sr. Mechanical Designer - Provide mechanical design support for the development of the US Army's Future Combat Systems (FCS) program. Concept Design/Detail Design and integration of mechanical and electrical components/subsystems of mobile military combat systems. Collaborate with multi disciplinary engineering teams to develop mechanical structures and subsystems for ground combat vehicles using top down design and large assembly management techniques. Provide high level Pro-e Wildfire technical support for onsite project designers.

Zelos Consulting, LLC (Sunnyvale, CA)

July 2004 – Feb. 2006

Director of Engineering Operations / Project Manager / Sr. Mechanical Designer - Provide a hands-on strategic leadership role for engineering group to identify, select and execute engineering solutions to help position and support long term strategic objectives. Collaborate with executive team to develop strategic business plan for Executive Support System (ESS) using portal technology that provides clients and upper management with information regarding project progress and risk management.

Recent Client Projects:

Loral Space & Communication (Mountain View, CA)

Lead offsite engineering group to complete the development of structural satellite components, using Pro/e 200i2. Developed internal project management / quality assurance process to assist in tracking offsite projects and ensure optimal project quality.

L-3 Communication / Titan Pulse Science Division (San Leandro, CA)

Developed a site specific PLM (Product Lifecycle Management) business proposal that addressed product development accountability from ideation to product retirement. The proposal included tracking all project history while integrating onsite applications and utilizing current web technology. Initial conservative return on investment was \$350k over a 12 month period. Provided high level PLM support for SmarTeam upgrade and migration.

Kulicke & Soffa (Hayward, CA)

Lead onsite engineering team to develop and design plastic and metallic subsystem related to IC testing equipment for the Package Test Division of K & S using Pro/E Wildfire, Intralink 3.3 and SolidWorks 2005. Developed automated internal business process validation and quality control procedures to streamline engineering workflow and improve client design quality.

NDS Inc. (Lindsay, CA)

Developed an offsite/offshore business proposal and project schedule to address updating legacy design data to current client standards utilizing non-metallic design standards, and SolidWorks 2005 CAD application. Executed proof of concept phase by converting a sample of the customers' legacy hand drawn engineering documentation to SolidWorks 2005 format.

ATS Automated Tooling Systems (Livermore, CA)

Developed and lead an offsite engineering team to support local R & D engineering group using SolidWorks 2005. Provided offsite R & D design support developing electromechanical component and engineering documentation for new business proposals.

Guidant Corporation (Santa Clara, CA)

Managed offsite engineering team to provide mechanical engineering support for medical device design team. Provided offsite Pro-Engineer CAD support designing mechanical test fixtures and plastic injection molded components.

Celerity Group, Inc. (Milpitas, CA)

April 2001 – July 2004

Project Manager / CAD Administrator - Managed IT / Engineering Support Group to for global multi discipline engineering team and corporate IT/Engineering related projects. Some of the major projects included: Implementing Oracle 11i Configurator, Calico Online Configurator, Agile 8, SmarTeam V5R10 PLM application with external web access and several Engineering CAD applications.

Senior Mechanical Designer

Jan. 2000 – April 2001

Responsible for developing 200mm ETCH gas delivery and process piping systems, sheet metal enclosure, gas delivery weldments, and P & ID layouts for multiple semiconductor manufacturing customers using Pro/e, SolidWorks, Inventor and AutoCAD. Developed an automated Pro/e process piping program utilizing PTC Pro/Program, family tables, simplified reps, large assembly management and assembly relations.

Vari-Lite International (Dallas, TX)

Nov. 1996 – Dec. 2000

Mechanical Engineering Designer – Responsible for design and development of various prototype and production electro-mechanical assemblies, plastic and aluminum casting, sheet metal structures, progressive sheet metal stampings, sheet metal enclosures, PCB assembly layouts and cable/wiring assemblies using Pro/e, Pro/Cable, Advanced Surfacing, Advanced Assembly, Sheet metal Design, Intralink and AutoCAD. Contributed to the successful development of the Series 2000 product line, Series 300 product line and Virtuoso Control Console. Coordinated with Optics group to develop test fixtures for optical assemblies and components. Utilized Pro/e to conceptualize models using large assembly management, simplified reps, family tables, relationships, and parameters.

Southern Finishing Systems, Cedar Hill, TX

April 1994 – Nov. 1996

Mechanical Designer – Responsibilities included designing automated conveyor systems, paint and power booths, curing ovens and primary wash systems for various clients.

Education**Foothill College**, Los Altos Hills, California

January 2005 – Present

Major: Working to obtain BS in Mechanical Engineering Design

Overall GPA: 3.5

Mission College, Santa Clara, California

Spring 2003 – Spring 2004

Major: Complete general requirements to transfer to a 4-year university.