

Brian Prasad

Redondo Beach, California

Prasadbiren@gmail.com

(714) 396-9424

<http://www.linkedin.com/in/bprasad>

Product Development & Management

An Aerospace Engineering management executive with a proven record of success & knowledge in managing projects/programs/ cost-effectively for SE&I, Design, and lean product development (LPD) in various industries. Strong engineering management (PM) background acquired through working on a variety of industrial programs/SE projects spanning multiple engineering/manufacturing disciplines and departments, and conceived with standard /best practices, tools and techniques. Demonstrated ability to architect any desired project plan based on given process, products and tools. Innovative (R&D) strategist with ability to manage large programs and services while reducing new product development time & resources. Key competencies include:

- New Business Development
- Supplier/ Supply-chain Management
- Process Reengineering
- PM Tools & Agile Techniques
- Program/Project Management (PM)
- Lean Product Development (LPD)
- System Engineering & Integration
- Leadership / Team Collaboration

WORK EXPERIENCE

Knowledge Solution

2018-Current

Management Executive and Partner, Irvine, California

As a key mgt. executive officer on the company Board of Directors. I am responsible for developing strategic vision, & short and long-term goals for the company. Served as an architect/ mentor in formulating company long-term strategies/ solutions for saving time and costs and improving product quality. Led the company to innovate and develop new sensor-based solutions for Smart Product Development.

Panasonic Avionics Corporation

2014-2018

R&D Director--Motion/Automation: In Flight Entertainment (IFE) & Seating Mobility, Lake Forest, CA

Managed a R&D aerospace business group in IFE systems development, Integration and controls. Led a highly technical group, who developed and generated strategic ideas, and new business/engineering solutions for motion Control of display units in First Class Aircraft suites. Helped the group to conceive top four new ideas (other than the existing IFE X-Series) for actuating (moving and positioning) any large-size monitors (24-inch & above) for a premium class (Airline Cabin) seating.

One of my group's goal was to plan, and selectively implement strategic concepts for our Aircraft Cabin seating arrangements. In the course of my R&D duties, I invented two US patents: The first US Patent was granted by US Patents Office on August 27, 2017. The second patent was granted on April 2, 2019.

Parker Aerospace, Control Systems Division (CSD), Irvine, California

2009-2013

Lean Product Development (LPD) Manager/ Director

Directed development of tools, techniques and strategies for minimizing product development time and costs on two new product lines. Led a multidisciplinary team of designers and engineers and provided guidance.

- Negotiated a contract with overseas suppliers that saved the department unit over \$1M
- Reduced overhead by 30%, resulting from gains of using automated programs, e.g., RMD
- Turned around troubled high development program cost overruns from a negative (-\$1.5M)to a positive (\$0.75M) – first year. Saved product development costs of production manifolds over 30%
- Leveraged Agile, waterfall and concurrent project methodologies to manage optimal distribution and decomposition of work-plans across many diverse business & technical disciplines/ groups

Manifold Product line Design Leader/Manager

Led a team of designers from Manifold product line business unit for building an automated solution for Rapid Manifold Design (RMD) System.

- Created and introduced unique manifold design system architecture with greater modularity & flexibility – this was the first one of its kind
- Established a network of integrated design macros that reduced the design turnaround time from weeks to days. Developed a rapid manifold design (RMD) tool/ system that reduced the manifold development time for any new designs from months to weeks
- Designed a user-friendly RMD user's manual, currently used by all manifold designers
- Completed all required designs of production manifolds ahead of program schedule and budget

Parker Aerospace, Control Systems Division (CSD), Irvine, California

2002-2007

Senior Project Engineer/ Supervisor

Managed hydraulic actuators and valve design projects spanning multiple technical disciplines and departments, achieving successful outcomes and delighting customers even under limited resources, tight deadlines/ budgets

- Led cross functional teams & built consensus in developing creative and practical solutions to problems in compliance with established lean policies, standard processes/ policies and best practices
- Managed the integration of vendor tasks with internal resources along with timely communication plans to managers and stakeholders, enabling 15% reduction in project costs, resource utilization and late deliverables
- Provided technical and analytical guidance as a part of daily management meetings (DMM), ensuring adherence to quality standards while meeting the stated project deliverables & deadlines

University of California (UCI) Extension, Irvine, California

2001-2002

Director of Engineering, Information Technologies & Sciences Dept.

Managed, design, develop, acquire programs, and new courses primarily designed for engineers and computer science professionals including professionals in the sciences & health

Unigraphics Solutions (UGS), Cypress, California

1998-2001

Director Knowledge-based Engineering (KBE), Product Business Unit

Spearheaded development of a new knowledge engine inside UGS line of products, which is now commercially sold as "Knowledge Fusion" – a KBE brand name

- Developed business & strategic plans. Technical leadership in KBE product lines. Managed Intelligent CAD & Unigraphics bridge products suit.
- Developed Inference engine blackboard architecture; web-based tools for collaborative engineering. Employed parametric engineering for capturing heuristics, design rules, and process workflow

Electronic Data Systems (EDS), General Motors Account, Troy, Michigan

1985-1998

ACE Technical Director

Managed Automated Concurrent Engineering (ACE) group of nine. Developed ACE applications for automotive parts

- Applied expert life-cycle methodology to product designs; math-based process for manufacturing – design for manufacturability/Assembly (DFM/DFA/ DFX), Quality Function Deployment (QFD) tools
- Sought applications of Concurrent Engineering, Developed Formability Advisor – an expert tool by programming KBE concepts into stamping and sheet-metal manufacturing processes. Implemented process reengineering and fast-to-market strategies to new sheet-metal parts developments (Decklid, A-Pillar, Doors, Roof, Frames, hood)

EDUCATION

Ph.D., Mechanical and Aerospace Engineering, Illinois Institute of Technology (IIT), Chicago, Illinois
D. Engineer, Mechanical Engineering, Div. of Applied Mechanics, Stanford University, Palo Alto, California

PROFESSIONAL DEVELOPMENT

Managing Editor: Concurrent Engineering: Research & Applications - An International Journal, published by Sage Publishing, London, (1997-current)

KBE COE/DPC Chair: CATIA Operators Exchange, Development Product Council, Knowledge-based Engineering Committee Chair, (2005-current)

AWARDS/PROFESSIONAL AFFILIATIONS

Distinguished Engineering Merit Award 2013, Orange County Engineering Council (OCEC), National Engineers' Week Awards Banquet, February 22, 2013

B.J. Fries Award of Merit 2012, CATIA Operator Exchange (COE) Forum, April 2012

Fellow: American Society of Mechanical Engineering, ASME (78-current)

Concurrent Engineering: Fundamentals: Vol. I -- "Integrated Product and Process Organization, **Vol. II** -- "Integrated Product Development" Author B. Prasad, PTR Prentice Hall, Upper Saddle River, New Jersey

PATENTS/ TRADE SECRETS

Passenger seat module

Patent date Issued Apr 2, 2019 Patent issuer and number US: 10,246,192B1 Prasad April 2, 2019

Inventor: [Birendra Prasad](#)

<https://patents.google.com/patent/US10246192B1/en?q=US:+10%2c246%2c192+>

Entertainment Display Mount

Patent date Issued Aug 29, 2017 Patent issuer and number US 9743769 ;

Inventor: **Prasad; Birendra** (Tustin, CA), **Shah; Shrenik** (Laguna Niguel, CA)

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-adv.htm&r=2&f=G&l=50&d=PTXT&S1=%22US+9743769%22&OS=%22US+9743769%22&RS=%22US+9743769%22>