

Engineering experience include:

- Experienced with electro-mechanical engineering & systems engineer/technology. Experienced with instrumentation & data collection apparatus design and instrumentation integration in mechanical, control systems and electrical systems. Software systems, data filtering, categorization & data reduction.
- Familiar with the requirements in electro-mechanical packaging, coil & contactor design.
- Familiar with cosmos and ansys simulation tools within solidworks and autodesk inventor.
- Experienced in Military, Aerospace and Federal standards in design, manufacturing & testing.
- Experienced in electro-mechanical designs including solenoids, coils, magnets, armatures.
- Experienced in materials specification and materials trade studies, weight balance and corrosion resistance analysis, electrical integration, high strength & fatigue resistant materials.
- Experience in developing products in a consumer device or government regulated environment.
- Identified critical design factors and risks that impact customer needs and regulatory requirements
- Supported reliability investigations and development of sustaining engineering designs.
- Supported quality, manufacturing, PPAP, DFMEA, PFMEA, SPC, TQM, TPM, Lean, Six Sigma, Kaizen, Kanban based methodologies, sustainment engineering, maintenance engineering & renovation.
- Created and maintained detailed component level drawings, assembly level designs, animation, motion studies, FEA, FMEA, comparison studies, design evolution & design refurbishment.

General strengths:

- Knowledgeable about mechanical layout, power conversion equipment packaging, & electronics. Generated layouts, tradeoffs, thermal, mass & structural, manufacturing studies.
- 15 years of professional Team Collaboration including over 26 years of Professional Mechanical Engineering experience on various CAD systems (Siemens NX, Pro/E, Cosmos Works Professional, AutoCAD & Autodesk Inventor, SolidWorks), and other engineering software tools including Microsoft Office (Word, Excel, PowerPoint, Access, Outlook, Catia, etc.). Excellent written and oral skills, and easily interface with individuals that are non-technical.
- Expertise knowledge of the engineering project development cycle, EPDC, completed numerous schedules, budgets and work order break downs in professional career development. Uses Microsoft Project for planning, Ghant charts, time lines, milestone earned credit, cost cutting activities & SAP.
- Rock solid grasp of engineering fundamentals and accomplished principles and practices, engineering calculations, advanced mathematics, FEA, P/FMEA, DFMEA, linear algebra, matrices, computations, manual calculations, spread sheets, electro-mechanical as required. Preparation of analysis & reports, mechanical systems evaluations. Trained and conducts training in hazard fault tree analysis and FMEA (failure modes & effects analysis). Familiar with systems analysis and knowledge regarding engineering management methodology. Trained in prevention of workplace harassment and trained in hazardous analysis & hazards communications, with FMEA.

Education & Professional Development:

- 2014, Certified in Lean-Six Sigma-Green Belt, Six Sigma Institute Certifications, 2014
- 2013, Certified in Lean Management, Pro-Source Certifications, 2013
- 2009, P.E. - Registered Professional Engr Mechanical, CA State Lic:
- 2009, Certified Solidworks Professional CERT
- 2008, Certified Solidworks Associate CERT
- 2007, COSMOS Professional Course Certified, Go-Engineer, Irvine, CA.
- 2006, April - Master of Science, Engr & Computer Sci, Cal St Univ., Fullerton, ACM Associated
- 2001, March - Bachelor of Sci, Engrg & Comp Sci, Cal St Univ., Pomona (CALPOLY), ACM Accredited
- 1991, December - E.I.T Engineer in Training Cert., Cal St License
- 1989, March - Bachelor of Sci Mechanical Engrg, Cal St Univ., Pomona (CAL POLY), ABET Accredited
- 1987, June - Associate of Science, Mechanical Accomplished and Drafting, ABET Accredited