Associate Staff Mechanical Engineer

ROBERT SMITH

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Objective

A Senior Mechanical Engineer seeking a position with a design/manufacturing firm that will benefit from my Mechanical Engineering expertise with System Design Leadership, Mechanical Design Development, and hands-on mechanical know-how.

Skills

Solidworks, FEA, PDM, PLM, Inventor, Autodesk, Optics, Precision Machine Design.

Work Experience

Associate Staff Mechanical Engineer

ABC Corporation - February 2013 – June 2015

- Lead hardware engineer for next generation robot.
- Lead and managed a team of 4 electro-mechanical design engineers to develop/design 2-axis PV solar tracking robot.
- Architected and implemented PLM system.
- Singlehandedly developed the ECO/revision control system for Qbotix, and worked with Autodesk to deploy VaultPRO to use its features for change control.
- Performed mechanical engineering responsibilities in small and midcap projects-write procurement specification for equipment, review drawings, .
- Provided technical support on product standards, performance, and modifications for customer orders and sales quotes.
- Prepared design drawings and product structures with drafting, purchasing, and manufacturing engineering departments.

Staff Mechanical Engineer

Delta Corporation - 2010 – 2013

- Opto-mechanical design and verification on line-of-sight jitter for laser beam stability in next generation semiconductor lithography EUV (Extreme .
- Droplet generator coupled-field thermal/dynamic analysis Thermal lensing CFD/thermal/structural analysis.
- Conduct applied research and development studies, and solve and fix NVH problems on HVAC units (include diesel engine drive units) with experimental .
- Radiation Sound Power Prediction Analysis on Screw Compressor; Investigation on Gearbox Sound Quality of On Truck Trailer Units Uni-Drive Motion .
- Maxima 1300 Truck Trailer Units - ODS and Modal Analysis on Engine Drivelines Skills Used Structural vibration analysis (include modal analysis, FRF .
- This project required revamping incumbent documentation system to employ an item based ECO system, and training company personnel to embrace industry standard PLM practices.
- After 2 years of company growth, I architected (as part of a 3 person team) the deployment of Autodesk PLM360.

Education

BS in Mechanical Engineering - (California State Polytechnic University)