

Sandeep Pawar

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Professional Summary

Technical leader experienced at using analytical and organizational skills to develop & manage new products.

Core qualifications include:

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| •Engineering Management | •New Product Development | •Systems Engineering |
| •Mechanical Engineering | •Verification & Validation | •Knowledge Management |
| •Product Simulation | •Design of Experiments | •Design for Six Sigma, Lean |
| •Technical Leadership | •Project Management | •Project Valuation / Financial Modeling |

Key Accomplishments

- Developed new analytical techniques to design, develop and optimize products. These methodologies have been successfully used at Cree to improve product performance, reduce cost & shorten development time.
- Introduced Systems Engineering approach to product management at Cree. This has improved system integration and made product development process leaner & robust.
- Using analytical as well as synthetic thinking skills, introduced new approaches to drive product innovation through cross-functional collaboration.
- At Engendren, led the cross-functional teams to develop innovative modular data centers from concept to production and beyond. I was responsible for design, testing & troubleshooting of the product.
- Won Business strategy competition organized by Navigant Consulting. Deliverable included thorough market research, market potential analysis, technology valuation using NPV & Real Options, IP valuation, marketing strategy & GO/NO-GO recommendation to Board of Directors.

Experience

Simulation Engineer, Cree, Inc (Racine, WI)

Apr '13 to Present

Cree, Inc is a manufacturer of lighting fixture category LED products, lighting products and semiconductor RF products. I work in the Product Development group of Lighting division.

Primary responsibilities include using virtual simulation, advanced analytical techniques, testing, prototyping to measure, improve and optimize product performance, DFSS, Lean product development

- Using FEA & CFD techniques, analyze thermal & structural performance of the lighting fixture
- Creating optimization models using multi-objective optimization programming to achieve product performance within design constraints. Such optimization models are used to achieve structural, thermal, optical, manufacturing design goals and achieve cost targets simultaneously. This has led to improved system performance and reduced cost.
- Trained and mentored engineers to implement Design for Six Sigma, Robust Design methodology, Design of Experiments, Statistical Tolerance Stack-up Analysis, FEA & CFD tools
- Leading design reviews, collaborating with cross-functional teams on new product development
- Project schedule risk analysis using statistical methods. Identifying critical tasks and project contingency planning