BALAJI GOVINDARAO

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SUMMARY OF QUALIFICATIONS

- Six-Sigma Lean Green Belt Certified
- Certified in 3D modeling & analysis software for AutoCAD, PRO/E, CATIA, Solidworks, and Ansys
- Generated and documented design layouts in CAD system with the implementation of DFMA
- Skillful in implementation of statistical control principles (Six-Sigma) to conduct CAPA and ANOVA studies
- Potential in execution of SCOR 11 KPI metrics, WBS, BOM, JIT, MRP, Kaizen, 5S, and Lean manufacturing techniques
- Capacity in the explication of DMAIC, QFDs, CTQ factors and performing DOE, root-cause and FMEA procedures
- Ability to interpret numerical data reports through MATLAB, Minitab, SAS, and Quality Control Charts
- Proficient in MS office, Fortran-90, and project management tools of Primavera and MSP

EDUCATION

The University of Houston – Cullen College of Engineering Houston, TX 01/2016 – 05/2017
Master of Industrial Engineering **GPA: 3.63/4.0**

SRM University – College of Engineering Chennai, India 09/2012 – 05/2014
Master of Technology in Computer Aided Design **GPA: 9.70/10.0**

Dr. M.G.R. Educational and Research Institute, University Chennai, India 06/2008 – 05/2012
Bachelor of Technology in Mechanical Engineering **GPA: 9.59/10.0**

WORK EXPERIENCE

Tata Consultancy Services Chennai, India 03/2015 – 05/2015
Assistant System Engineer - Trainee

- Demonstrated strong technical skills for accomplishing programming tasks for the project team
- Collaborated with cross-functional team to generate effective solutions for on-time project delivery

IndianOil Petronas Private Limited Chennai, India 12/2010 – 01/2011
Engineering Intern

- Completed internship at the construction site of cryogenic storage facility of Liquefied Petroleum Gas terminal
- Exhibited remarkable problem-solving and analytical skills for locating defects with diverse quality control methods

ACADEMIC PROJECTS AND PUBLICATIONS

Statistical Process Control (INDE 6363) – Statistical Analysis of Duty-Flow Performance bench: IAC Valve ***Spring 2017***

- Team analyzed data for normality with linear regression model for various control charts interpretation
- Evaluated six-sigma study through Gage R&R, ANOVA, and CAPA with root-cause analysis using DMAIC principles

Production Planning and Inventory Control (INDE 6361) – Production Plan for Plastic Cup Manufacturer ***Spring 2017***

- Team devised optimal EOQ production procedures for plastic cups combined with lean manufacturing techniques
- Simulated Time studies with variability buffering for bottle-neck analysis from thermo-forming to packaging

Supply Chain Management (INDE 7390) – A Case Study on Costco Wholesale ***Spring 2017***

- Team critiqued Costco's Upstream, Midstream, and Downstream, for assessing SCOR model key performance metrics
- Conducted logistical flow analysis of Vendor Managed Inventory (VMI) model with SAP framework

Engineering Project Management (INDE 6332) – Construction of a Research Vessel ***Spring 2016***

- Team managed the process of Design, Planning, Bill of Materials, WBS, Budgeting, and effective resource allocation
- Delegated the Scheduling of tasks, Managing Failures, and gained exposure in Leadership skills

Material Handling (INDE 6339) – Facilities Planning Study at Piping Technology & Products, Houston ***Fall 2016***

- Team explored the facility for providing expansion recommendations on engineering division
- Incorporated improvement type layout algorithm with distance based objective optimization using Excel tool

Solid Mechanics (Graduate Research Assistant: CAD Thesis) – Computational Dynamics of Slip Ruptures ***Spring 2014***

- Developed numerical simulations of in-plane sliding of bi-materials with high-performance F-90 computations
- Acknowledged for research paper in International Journal of Solids and Structures, Vol. 59

Thermal Engineering (Diesel Engine Analysis) – Methyl-Ester Soybean Oil: Biodiesel ***Spring 2012***

- Team Performed diesel engine analysis with biodiesel-ethanol blends to display renewable fuel sustainability
- Published in International Journal of Thermal Science and Engineering, ISSN 2249-4049, Vol. 02, No. 01