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| **Balachandra.383900@2freemail.com****BALACHANDAR****Targeting assignments in Design Engineering / Product Design & Development with a leading organization of repute preferably in Gulf Countries** |
| **Profile Summary*** Highly skilled professional with **over 4 years** of expereince in  **Desing Engineering, Production Support and Product Design/ Development**
* Skilled in managing design engineering operations involving Modelling, Detailing, Assembly & Surface Design for Tanzania Railways using CATIA V5 and CAD
* Gained exposure in locomotive structural designs with Project Head, formulatingthe entire drawings for the whole locomotive for customers to go through in future for easy maintenance
* Effective in liaising and networking with people across hierarchical levels for smooth task execution, and achievement of organizational goals
* Hands-on experience in Rail Locomotive Technical Equipment like Engine, Compressor, Blower along with Deflection & Alignment like Engine to Compressor Shafts, Engine to Alternator and so on
* Possess knowledge of Metal Fabrication Techniques, FEM Analysis, Rail Locomotive Technical Equipment’s like Engine, Compressor, Blower
* Diligent communicator with strong relationship building& leadership skill and multi-tasking capabilities
 | **Core Competencies****- Design & Development****- Modelling & Drafting****- Structural Designing****- Project Execution****- Inspection & Audit****- Process Planning****- Quality Assurance****- CATIA V5 3D Design****- Product Design & Development****-Team Management****- Finalization of Accounts****Soft Skills**Communicator**Collaborator**Intuitive**Innovator**Thinker Analytical**Motivator**TeamBuilder |
| **Timeline**Post Graduate Advance Diploma in Fire & Safety from International Fire & Safety Institute, SivagangaiCrystal Technologies, Madurai as Draftsman**2015****Since 2015****2014-2015**SMH Rail SDN BHD, Malaysia as Design Engineer |
| **Education & Credentials*** Post Graduate Advance Diploma in Fire & Safety from International Fire & Safety Institute, Sivagangai in 2015
* BE (Mechanical) from Rajiv Gandhi Engineering College, Chennai, Anna University in 2014
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| **Professional Experience****Jun’15- till date****SMH Rail SDN BHD, Malaysia as Design Engineer****May’14 – May’15****Crystal Technologies, Madurai as Draftsman****Role:*** Managing end-to-end product design & development including requirement analysis, finalizing specifications, design management, prototype development, testing, failure mode design analysis, field quality & field failure improvement, vendor management and quality management
* Ascertaining overall operations for new products or improvement of existing products with thrust on reducing product cost and based on market trends / requirements
* Supervising structural designing, 2D and 3D models by designing own using CATIA V5 & AutoCAD Versions
* Working on the cost estimation of the part and project for feasibility and approval process
* Preparing and executing the project development plan for all new models from different customers
* Coordinating with product development / customization functions including requirement analysis, finalizing specifications, designing, prototype development and testing activities
* Formulating the general arrangement drawing, assembly drawings and part drawings
* Managing the solid and surface modelling projects in CATIA, GD&T, and so on
* Steering sunctions like fabrication, operation, application, installation and repair of mechanical systems
* Analysing& producing the technical requirements and specifications & recommending design modifications based on client requirements
* Coordinate maintenance and repair activities to obtain optimum utilization of equipment like Engine, Expressor, Blower, and so on
* Preparing presentations like customer design proposal and manuals to define feasibility of design or application
* Maintaining technical documentation, reports in quality inspection & design and describing the specifications/usage of products

**Highlights:*** Played a key role in re-manufacturing 16 no’s of old locomotive to new locomotive in new design
* Experienced in managing projects with vital contribution towards assessment of latest technologies for design of high value products

**Projects Executed*** Remanufacturing 88 Class Locomotives in Tanzania Railways Limited
* Thermal Energy Storage Behavior of PCM using NANO Particles for Solar Water Heating System (UG Project)

**Training Attended****Title: Manufacturing the assembled Engines for Tractors and Cranes**Organization: Simpson Private LimitedDuration: 1 Week**Organization: EDAC Engineering, Chennai**Duration: 3 Days**Extracurricular Activities*** Qualified as Semi-finalist in National Level Design Competition conducted by CADD Centre
* Actively participated in:
* Quiz Competition conducted by Madras School of Social Science
* National level technical symposium organized by Jeppiaar Engineering College, Chennai
* RIVIERA-10 organized by Vellore Institute of Technology, Vellore

**IT Skills*** AutoCAD 2D& 3D Designing (All Versions)
* CATIA V5 3D Design Software,Revit,Solidworks,Creo& Pro-E
* MS Office, Operating Systems, Windows and other packages
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| Personal Details**Date of Birth:**17th March 1993**Languages Known:**English, Tamil, Hindi and Swahili |