LinkedIn profile: https://www.linkedin.com/in/gaurav-sangamnerkar

GAURAV VIVEK SANGAMNERKAR

1205 University Avenue, Apt 231, Columbia, Missouri MO-65201 • +1 (573)-639-8146 • gauravmech25@gmail.com

EDUCATION

Master of Engineering – Mechanical, University of Missouri-Columbia, Missouri **Dec 2016**

***Coursework*:** Computational Heat Transfer and Fluid Mechanics, Manufacturing Design, Applied Mechanical Optimization, Theory of Elasticity, Modular Machine Tool Designing, Industrial Energy Analysis, Mechanical Behaviour of Materials

Bachelor of Engineering – Mechanical, University of Pune, India **Jul 2012**

TECHNICAL SKILLS

CAD/CAE/Programming : AutoCAD, MS-Excel, Catia-V5, UGNX, SolidWorks, ANSYS, MATLAB, TeamCenter Data Management

Software Skills (novice) : PV-Elite, STADD-Pro, Caesar, ABAQUS, C.

WORK EXPERIENCE

Urja-Disha Boiler Technologies, Pune, India **Nov 2013 – Dec 2014**

Design Engineer

- Developed programs in MS-Excel based on Code Calculations to facilitate the Structural Design of Self Supporting Steel Stack, Vertical Economizer Steel Casing Structure, Air Preheater Casing Structure as well as Vertical Silo and Bunker casing designing.
- The excel programs greatly facilitated for quick structural designing to provide Equipment sizing data for drafting.
- Prepared a MS-Excel calculation sheet for Thermal Design of Economizers for evaluating the Heat Transfer Area based on Convection and Radiation Heat Transfer.
- Drafted 2D drawings of Non Pressure Parts viz. Economizer Steel Casing Structure, Air Pre-heater structure.
- Drafted the P. & I.D. sheets for air, water and gas side for Coal/Bagasse Fired Power Plants using Auto-CAD.
- Created purchase specification sheets based on Piping and Instrumentation Diagram.
- Knowledge about G.A. drawings for pressure parts like Boiler Drum, Super Heater section, Steam collection drum.
- Performed structural analysis of Economizer steel structure using STAAD-Pro and Structural analysis of Steam Piping from Superheater to Turbine using Caesar (novice).
- Conversant with the use of ASME Sec-8-Division 1,2 Codes, API Codes, IS Codes, IBR codes.

Tata Technologies, Pune, India **Jul 2012 – Nov 2013**

Design Engineer

- Worked in Automotive plastic domain, designing vehicle interior components.
- Worked on live projects to effectively design body and trim components like Dashboard, Floor Console, Driver Bezel and Door Trims in the time frame provided. Team efforts were well appreciated for timely completion of project.
- Designed B-Class plastic surfaces based on A-Class Surface Inputs from styling department using 3D-CAD software.
- Designed Body and Trim features like Clip-Towers, Dog House, Screw Boss, strengthening ribs considering previous design section data and designing requirements like GD&T restrictions and draft limitations for plastic die casting.
- Experience in working for OEM's like Chrysler, Jaguar and Land Rover and Tata Motors.
- Worked with TeamCenter Enterprise Data Management tool while working for OEM's.
- Worked on designing of exterior trims as well as Cross Car beam designing apart from Body and Trims.
- Conversant with the use of 3D-Cad software's like Catia-V5 and UGNX for designing Body and trim components.

SEMCO, Pune, India **Aug 2011 – Dec 2011**

Engineering Intern

- Developed a proto-type in Sheet Metal for an existing Pressure Die Casted Electrical Component of SEMCO.
- The proto-type was successfully tested for required UL norms and proved to be a possible alternative.
- Undertook training at several departments of the company during internship such as Engineering, Tool Designing, SPM and tooling, UL Testing Lab to closely monitor Techno-commercial aspects of Hot/Cold Chamber Pressure-Die-Casted Electrical Products used in North American market.

ACHIEVEMENTS AND ACTIVITIES

- Interned at MU Industrial Assessment Center to carry out Energy Audit at few industries
- Worked as Customer Service Attendant for Plaza 900 - Campus Dining Services, University of Missouri. Promoted to Student Supervisor due to good performance.
- Scored second position at a National Level Technical Paper Presentation Competition during undergraduate studies.

LinkedIn Profile QR code