satya srikar p

<https://projects.skilllync.com/profiles/Satya-Srikar-927>**>**

B-353, Laxmi Nilayam, Hill Colony, Phone: +91-8686141435

Vanasthalipuram, Hyderabad. 500070 Email: [satyasrikar.99@gmail.com](mailto:satyasrikar.99@gmail.com)

## design engineer

Qualified and competent Design Engineer proficient in surface modeling, plastics design, BIW closures, Part Modeling using CATIA V5 and Solid Works seeking Design Engineer role as my career ahead.

### CAD TOOLS Experience

**Automotives Plastics design (CATIA V5)**

**Modeled *B and Closing* surfaces for Right Side door switch panel**

* Worked on different workbenches like part design and Generative shape design.
* Made *B and C* surfaces using the *Class A* surface of Side door switch panel. Created and used *tooling axis* to check the component’s manufacturability. Application of Draft analysis using *tooling axis.*
* Usage of geometrical sets was really helpful to maintain simple *tree structure*.

**Modeled B and C surface of Right door Latch opening**

* Created B and C surface of Right door latch opening using Class A surface.
* Made a plastic component with minimal tree structure by creating Geometrical set for set of operations**.**
* Creation of *planes* using various options.
* Applied the concept of *Parents/Children* and replaced parents of trim operations in order to get the required output.

**BIW Hood Design using CATIA V5**

**Created Hood design using the Aesthetic Surface Provided**

* Created the inner surface of Hood in the car and also designed and created Emboss on it.
* Added Mastics to the inner panel which are useful for load distribution as well as joining the inner and outer surface.
* Created *Hemming surface* for the outer panel and also assembled the Latch and Hinge to the designed Hood.
* Including *Mastic points, Hemming process* for the sheet metal to be designed and assembled the components.

**Wheel arc Radius Calculation:**

* Applied European standard 6, has applied it on a fender design and made the necessary calculations to check whether the design can be approved or not.

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**Section Modulus Calculation for the Hood:**

* Created a 2D body as per the Hood and surface extruded the sketch to calculate the Section modulus values and noted them down.
* Modified the design by offsetting the Aesthetic surface and calculated it’s section modulus.
* Then compared it with the original and found that modified design has much strength than that of the original design.

**Ultimate Solid Works course on Solid & Surface modeling**

**Designed and Developed a model of American Chopper using Solid Works**

* Designed the various components of Chopper like Transmission belt, Chain, Engine, Chassis, suspension fork.
* Understood the options like pattern and creating different *planes* in the sketcher and also used *projected curves* to get required output.
* After designing the components, had assembled all of them using several mates to fix the parts of American Chopper.
* Applied the Renders and scenes to the assembled part using *Photo view 360* and *Solid Works Visualization.*

**Designed and rendered a Sun seeker Predator 108 Yacht**

* Designed the parts of *Sun seeker Predator Yacht* like *Propeller, Radar mast, Radar, Superstructure and Hull***.**
* Imported the *Hull’s*surface as the base for components like Superstructure, front seat, middle seat and Rear seat.
* Used many options like surface loft and surface fill in order to get the perfect output when knitting the surfaces.
* Applied the relations and constraints in Solid works in order to attain the fully constrained sketch.
* Had also applied the Photo realistic renders to the Yacht which I have designed.

### Internship at manufacturing unit

**Jr. Engineer Assistant at TURBO ENGINEERING SERVICES**

* Understood the concept of Re-manufacturing process of a journal bearing used in Turbines.
* Application of manufacturing process using Drafting sheets.
* Checking the quality of Re-manufactured Journal bearing by searching for any cracks, wear and tear of the product.

### Previous Work Experience

**Content Review Analyst**, **Globallogic technologies Ltd**. (Jan 2015- Nov 2015)

* Reviewing the content for any violations that are done by users either in their G+ profile or posts.
* Used to maintain team’s production hours done by the day.
* Co-ordinated with team mates about improvising the quality achieved as this was our main goal without increasing the volume of the work.

**Senior Detailer and Junior Modeler at** **Intellicrats info solutions** (Dec 2015 – May 2019)

* Learnt about the standards used by American government for Structural steel construction and their grades.
* Handled many projects on my own without the interference of my Team Lead for planning the work to my team-mates and achieved the target.
* Used to communicate with Clients for clarification of docs and also created and maintained log sheets for the drawings which were sent or received.

### Presentation and Volunteering skills

* Co-ordinated many events in College during fest and other sports activities.
* Participated and conducted many events in previous organizations working along with HR department.
* Also co-ordinates many rides on two-wheeler and also ensuring road safety rules.

### Software Packages

* **Modelling**: CATIA V5, Solid works (Developed B and C surface and solid body of the parts in a door of the vehicle and other part modelling of components using CATIA V5, Developed all solid parts of the components and assembled them, used surface modelling commands created solid bodies Solid Works). All the projects done are provided in the link above.
* **Computational Analysis**: MATLAB (Made some basic coding, solved some polynomial equations for a specific data and performed calculations on them and saved the result plots into a separate directory). All the projects done are provided in the link above.
* **Statistical Data Analysis**: Google Data Sheets (During my work in Globallogic we used to have all the work assigned in data sheets and have also maintained team’s attendance and their production hour’s data sheet, MS-Excel basics in statistical data inputs and calculations).

### Educational Qualification

**Master’s in Hybrid Electric Vehicle Designing at Skill-Lync.**

**B.E. Mechanical Engineering,** CMR Technical Campus, Medchal, Hyderabad, India, GPA- 6.3/10 (August 2014)