HARSHA CHALASANI

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PROFFESIONAL PROFILE

Master of Science Level Professional in Mechanical Engineering with broad set of skills applicable across Automotive Industry and Mechanical Industry. Professional who can bring a fresh and energetic approach with over two years' experience in Automotive Engineering on Exterior Body, Closures and Interior Trim. Proficient in 3D Solid Modeling using NX11, Catia V5, Teamcenter, VIZ Mockup and Finite Element Analysis using Hypermesh and Abaqus. Knowledgeable in the new Technology of Virtual/Mixed Reality and Parallel Virtual Machine (PVM). Adaptable and transformational leader with an ability to work independently in dynamic and challenging environment and to take ownership of assigned projects and see them through completion.

CORE SKILLS AND CERTIFICATIONS

SKILLS: -

- Unigraphics(NX11)
- CATIA V5
- Teamcenter
- Hypermesh
- VIZ Mockup
- Abaqus
- Python
- Alias
- C++
- MS Office

CERTIFICATIONS:-

1. **Self - Driving Car Engineer** (Nanodegree) – **Udacity** (Currently Pursuing)

- Finding Lane Lines
- Behavioral Cloning
- Highway Driving
- Advanced Lane Finding
- Extended Kalman Filter
- Programming a Real Car
- Traffic Signal Classifier
- Kidnapped Vehicle
- PID Controller

2. **Introduction to Computer Learning – Udacity**
3. **Introduction to Hybrid Electric Vehicle – Skill-Lync**

PROFESSIONAL EXPERIENCE

GENERAL MOTORS | Warren, MI   **Sep 2016 – Dec 2018**
Mechanical Design Engineer- Vehicle Integration

- Design and Integrate various parts of vehicle such as IP, Center Console, Hood, Rockers, A- Pillar, B-Pillar, Lift gate, Upper etc. using Typical Sections, General Arrangement and Trim from Tracking Vehicles in NX11 and VIZ Mockup for Entry/Egress, Vision Angles and Body Clearances Evaluation.
- Integrate Seating Properties for trucks, SUV's and crossovers for the evaluation of Entry/Egress for Row 1, Row 2 and Row 3 Driver and passenger side, Occupant Head, Knee and Leg Clearances and the vision angle clearances.
- Package windshield and door glass along the B-R sealing, alongside blackouts, for Vision Angles.
- Develop Bodyside of the vehicles to develop Doors, Liftgates, Doglegs, Upper by creating side glass drop which compares the Engineering Surface to the Studio Design Surface.
- Develop Math for evaluation of the Vehicle using Virtual/Mixed Reality Technology, and toggle between different surfaces to compare multiple surfaces, which saves a lot of money in building the physical Seating Property for evaluation.

- Develop and maintain the Vehicle Integration and Vehicle Architecture Managers Website and Splash page which is a one – stop place for all the Criteria Typical Sections, General Arrangement, Bodyside tools and Vision Angles tools, which are used for development of Seating Properties.
- Medium between teams developing Studio Math Surfaces and Engineering Math Surfaces, to evaluate and make sure all Criteria is satisfied in the Final Design Surface.
- Submit 3D Solid parts for Rapid Prototyping and 3D Printing for parts such as Outside Rear View Mirrors, Shifters etc.
- Creating 2D Drawing and cut sections from 3D Models for the Manufacturing shops (wood metal and paint shops) to build all the parts using various kind of materials, to build the entire vehicle for evaluation within the tolerance.

DFSS Projects
- DFSS project for evaluation of Entry/Egress for Row 1 and Row 2 Driver side for different Upper Heights using a Parallel Virtual Machine (PVM).
- DFSS project for reach evaluation of Shifter, Mobile Charger, Cups Holder, Start/Stop Switch, Storage Bin and Trailer Brake Locations using Virtual Reality Headsets and Physical Property and switching between Studio Design, Engineering Design and in market vehicles and comparing them to best practice methods.

CYIENT PVT LTD. | Hyderabad, India   May 2015 – June 2015
Industrial Trainee - Mechanical
- Worked on process planning of various parts of Gas Turbines for Boeing, Pratt & Whitney Canada.
- Convert the 2D model drawings into 3D solid modelling using NX 9.
- Assign the process steps for the operators to run the operations.

VAJRA AUTOMATION | Hyderabad, India   May 2013 – Aug 2013
Industrial Trainee – Mechanical
- Design Electric Switchboard Boxes using CATIA V5 in Part Design Workbench.
- Develop the process steps to manufacture the Switchboard Boxes.
- Program the CNC Drilling and Bending Machine to provide instructions for computers to control the machine tool.

HYDERABAD INDUSTRIES LTD. | Hyderabad, India   May 2012 – June 2012
Industrial Trainee – Mechanical
- Design Chemical Storage Metal Tanks, per the requirement of the customers using CATIA V5 using Part Design workbench.
- Assign all the process steps for Manufacturing shops to build the Metal Tanks.
- Analyzing tooling cost, manpower cost and material cost for project and document for every project.

EDUCATIONAL BACKGROUND

- **WAYNE STATE UNIVERSITY**
  Master of Science – Mechanical Engineering   Aug 2014 – May 2016

- **GITAM UNIVERSITY**
  Bachelor of Science - Mechanical Engineering   Aug 2010 – April 2014

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