

# SIDDHANT SRIVASTAVA

#3434 Laurens Road, #707, Greenville, SC - 29607 | [srivast3@clemson.edu](mailto:srivast3@clemson.edu) | (864) 901 6971 | [linkedin.com/in/siddhant-srivastava-cuicar/](https://www.linkedin.com/in/siddhant-srivastava-cuicar/)

## EDUCATION

### Clemson University, ICAR Campus

Expected Graduation: May 2021

*Master of Science in Automotive Engineering.*

**GPA** 1<sup>st</sup> Sem: 3.83/4

• **Coursework:** Deep Orange 12 Project, Automotive Systems Overview, Automotive Electronics, High Performance Computing for Autonomy, Vehicle Project Management, Autonomy Science and Systems, Motion Planning

### Birla Institute of Technology, Mesra, Ranchi, India

Jul 2012 - May 2016

*Bachelor of Engineering in Production Engineering, First Class*

**GPA:** 8.36/10

• **Held first rank in Production Engineering department.**

## TECHNICAL SKILL SET

- Software and Programming Languages: Python, MATLAB, C++, TASS Prescan
- CAD and CAE software: Siemens NX V11, Hypermesh, Ansys, Catia V5, Creo Parametric

## RELEVANT EXPERIENCE

### Senior Engineer – Chassis, Thermal & Electrical Systems, General Motors Technical Center, India

Jul 2016 - Jun 2019

- **GD&T of wiring harness | CAD on NX Unigraphics | CAE analysis of electrical brackets**
- Design-lead for the **final drive of the transmission assembly** of SAE Range Extension Electrical Vehicle (SAE REEV) project at the incubation and manufacturing. Project displayed at **SAE FISITA 2018** held in Chennai.
- Design for **Six Sigma project** on developing an **Excel Macro tool** for predicting frequency of sheet metal brackets of different thickness values, materials and different load values. The tool was then created in **MATLAB (500 lines of code)** for testing, validation and general use for the company's employees.
- Part of orbital-shift innovation team at Engineering Operations & Systems Design department.
- Submitted three innovation projects in company's Patent review board.

### Summer Intern – Paint Shop, Hero Motocorp, Dharuhera, India

May 2015 – July 2015

- Researched and documented the **painting processes** such as pre-treatment, dual coat painting, masking, and stripe application, of **Splendor iSmart** fuel tank in the expansion plant.
- Researched the different **laboratory experiments** held to test the paints and stripes.
- Suggested **technical changes** in the existing Pre-treatment process.
- Helped the media team in building the whole process as a video and animation which will be used as and for **training purpose and setting up new plants** of Hero MotoCorp Limited.

## RELEVANT PROJECTS

### Final Project, AuE8930 – High Performance Computing for Autonomy

December 2019

- **Benchmarking of LIDAR placement using TASS Prescan and MATLAB.**
- Creating simulation environment, comparing market available LIDARs at different configuration and studying the extracted point cloud data to select the best LIDAR placed in best possible configuration.

### Final Project, AuE8350 – Automotive Electronics Overview

December 2019

- **Ultrasonic sensor fusion using Kalman filter** for distance identification of target objects.
- **Building an Autonomous RC car with Lane keeping and Adaptive cruise control** features using PID controller.
- Coding was done in **Arduino** platform.

### Final Year Project, BIT Mesra

Jan 2016 - May 2016

- **Comparison on the properties of Diamond-like carbon (DLC) coating on the HSS specimen**, where coating has been done through Physical Vapor Deposition (PVD) process.
- As RF power increases, the properties of DLC coated HSS tool increases, thus increasing the Tool Life.

### BAJA Student India 2015 & 2016 and SAE BAJA India 2016 (Team Firebolt Racing)

Feb 2014 - Mar 2016

- Designed and tested the **braking circuit** of an ATV, after calculation of various critical braking parameters.

## POSITIONS OF RESPONSIBILITY

- **President & Convener** - Institute of Engineers (India), Production Engineering, BIT Mesra
  - **Joint President** - Dance Club, BIT Mesra
  - **Team Leader** - OGX (Outgoing Exchange) AIESEC, Ranchi chapter
  - **Technical Head** - SAE, Students' chapter, BIT Mesra
  - **Chief Technical Officer** – Team Firebolt Racing, BIT Mesra
- Apr 2015 - Mar 2016  
Apr 2015 - Mar 2016  
Dec 2012 - Jan 2014  
Apr 2015 - Mar 2016  
Apr 2015 - Mar 2016