# Desu Harsha

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IIITD&M, Kancheepuram
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## Education

**IIITD&M,KANCHEEPURAM**
BTech in Mechanical Design and Manufacturing | 2014-2018
CGPA : 8.29/10

**SRI CHAITANYA JR COLLEGE,AP**
Senior Secondary (XI & XII) | 2012-2014
Percentage : 97.20 %

**Bell & Bennett High School, AP**
Secondary (X) | 2011-2012
CGPA : 9.5/10

## Areas of Interest

Thermal Energy Systems
CAD Modelling
Product Design
Manufacturing Technologies

## Skills

- Fusion 360
- Inventor
- Catia
- Solidworks

## About Me

I completed the final year of an undergraduate course - Mechanical Design and Manufacturing at IIITD&M, Kancheepuram.

I am good at technical subjects along with Design and Modeling. Currently, I am working on the development of Microfluidic devices at IIT, Madras.

## Academic Projects

### 3D DIGITAL RECONSTRUCTION OF HERITAGE ARTIACTS

Digitized heritage artifacts at Mahabalipuram and Dakshinachitra, made a 3D model, reconstructed partially damaged artifacts and 3D printed them as a part of final year Project .

### HEAT EXCHANGER

Developed a Heat exchanger apparatus as a part of Thermal Energy Systems course to show that heat transfer is efficient through turbulence and selected an efficient turbulence method to increase heat transfer.

### FLOATING WASTE COLLECTOR

Developed a prototype for collecting floating waste in ponds and small water bodies as a part of Product Design Practice(PDP) course.

### AN ASSISTANT FOR PHYSICALLY HANDICAPPED

Developing a concept of an intelligent product that assists physically handicapped in picking things in the close vicinity.This project mainly focuses on applying designing intelligent systems principles and sociological perspectives of design to reduce difficulties faced by physically handicapped people in the home.

### NON CONTACT SPEED MEASURING DEVICE

Designed a Contactless speed sensing device to measure the speed of a DC motor. The system uses IR transmitting and receiving technique. The reflected IR rays are received by the receiver and the signal is fed to the microcontroller.

## Internship

### AUTOMATED BLISTER PACKAGING MACHINE

**Addison Tools & Co Ltd. | May-Oct 2017**

Completely designed a machine to automate a Blister packing technique for packing of drill bits as a part of a 5-month internship. Here I learned a lot about machine designing and automation techniques.

## Positions Held

- Worked as Quality Management System Core for SAMGATHA 2017, the annual techno-cultural fest of IIITD&M, Kancheepuram.
- Member of Hospitality team at the first Inter IIIT sports meet 2016 held at IIITD&M, Kancheepuram.
- Coordinator of Hospitality team in SAMGATHA 2016, 2017 and CLUSTERVENTS 2015&2016.

## Achievements

- Won a prize in Autodesk Fusion 360 monthly design challenge in November 2016 for conceptualizing and modeling of a Waste Segregator.
  https://gallery.autodesk.com/fusion360/projects/waste-segregator
- Won a prize in Autodesk Fusion 360 monthly challenge in January 2017 for 3D modeling of a chandelier .
  https://gallery.autodesk.com/fusion360/projects/chandelier-3
- Designed a bot HoverTron a Self Balancing Scooter-Bot which can act as a personal assistant and a mini-vehicle at the same time for Design for Robotics competition.
  https://gallery.autodesk.com/fusion360/projects/hovertron
- Mentored students during Madurai and Chennai editions of INDIA DESIGN WEEK 2017 conducted by ICT academy and AUTODESK INDIA.
- Completed an internship on redesigning and 3D modeling of real-life products using FUSION 360 at DIMI works.
- Won 2nd prize in ROBOTIC BASKETBALL event conducted in IIITDM, KANCHEEPURAM.
- Won district 1st prize in Jana Vignena Vedika quiz competition (Chekumuki) in 2009 and 2010.

## Other Softwares used

- Autocad
- Matlab
- Blender
- Adobe Photoshop
- Adobe Illustator
- C- Programming