

# Satya Sasank K

Bachelor of Engineering, Mechanical

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## Links

LinkedIn : [Satya Sasank](#)  
GrabCAD : [Aytas](#)  
Projects : [K.S.S.Satya.Sasank](#)

## Skills

### CAX

SolidWorks, FreeCAD,  
OpenFOAM, ParaView,  
Converge Studio 3.0,  
Ansys-Fluent, ANSA  
GrabCAD Print

### OS

Linux{Ubuntu, Manjaro},  
Windows

### SCRIPTING

C++, Python, Octave/Matlab

### OTHERS

Office Suite, Git, Latex,  
Blender, Atlassian Jira

## Education

2015-2019

Bachelors in Mechanical Eng.  
Sir M Visvesvaraya Institute of  
Technology, Bangalore  
CGPA : 6.47/10

2020-2021

Masters certification in  
External aerodynamics  
Skill-lync

## Coursework

Mathematics  
Thermodynamics  
Heat Transfer  
Fluid Mechanics  
Energy Engineering  
Additive Manufacturing  
Mechatronics

## Experience

2020 MAR **AstroSoc Corp Applied Sciences Division** **R&D Intern**  
Designed various mechanical components and UAV frames, conducted flow simulation over a fuselage, analyzed the results, suggested suitable changes in geometry.

## Certifications/Achievements

2020 JULY **NASA's RMA Challenge** **Online Challenge**  
Won First Place in NASA's GrabCAD Challenge on Restraint and mobility aid design. [Challenge Link](#)

2018 SEPT **Introduction to PLC programming** **Workshop**  
Completed a 1day student development program on programmable logic controllers

2017 AUG **Training on 3D printing** **Workshop**  
Completed a project based training program on 3D printing  
Certificate : [36770008](#)

2017 JUNE **Training at Bangalore Aircraft Industries Limited** **Workshop**  
completed a 10 day workshop on flight dynamics, structures, Cad modelling, stress analysis, fabrication, and material testing.

## Projects

2021 JAN **1D supersonic nozzle flow (Mac-Cormac Method)** **Matlab**  
Developed a OCTAVE code to simulate isentropic flow through quasi 1D nozzle at subsonic-supersonic velocity.

2021 MAY **FSAE car project** **Converge**  
Simulated flow over an FSAE car model in CONVERGE CFD and analysed the aerodynamics of wings and body.

2021 JUNE **Flow over Ahmed Body** **Ansys Fluent**  
Modeled the Ahmed body and simulated flow over it in a steady state condition in ANSYS FLUENT.

2021 AUG **CFD meshing of a Tesla Cyber Truck** **Meshing**  
A CAD model of a Tesla cyber truck has been cleaned and pre-processed using ANSA.

2021 SEPT **Creating a new OpenFOAM solver** **C++**  
Using the code of the existing openfoam solvers a new solver has been created and tested upon a simple case.

Detailed reports of my projects can be found at

[K S S Satya Sasank](#)

Follow the hyperlink in bold\*

## Languages

English : Full professional proficiency | Telugu : Native proficiency