ENGINEER.

SHREYAS NAGARAJ

I am a 24-year-old from Bangalore, India. Currently pursuing my Masters of Science in Engineering Design-1 st Year. For me, design means being able to give shape to people's unexpressed ideas.

Being Indian is a matter of pride and I like to think that one day I will be able to contribute to keeping the values of Made in India alive.

HOBBIES

Playing Chess, Football and Cricket Reading Books, watching Science Fiction movies Learning new languages

INNOVATE INVENT



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State College, PA

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PORTFOLIO

Education & Experienc<u>es.</u>

Pennsylavania State University, University

Masters of Science - Engineering Design

Dayananda Sagar College of Engineering 2017 - 2021 Bachelor of Engineering - Mechanical Engineering

Collaborations & Experiences.







- Negotiation
- Work Ethic























The full system.

Bioreactors are designed to meet all process requirements for culture of mammalian cells for production of vaccines, biosimilars and other biopharmaceutical products.

In accordance with ASME Sec.VIII Div. 11 & ASME BPE & ASME Sec. IX

Designed for batch, fed batch and continuous mode of operation, system can be used as fully automated or semi-automated model.





LIFE

Raptor.

This flying robot can be remotely controlled or flown autonomously using software-controlled flight plans in its embedded systems, that work in conjunction with onboard sensors and a global positioning system.

Working animation and analysis of the quadcopter was rendered

With this aerial vantage point I soar, the unseen, over the peaks and islands.









Gas turbine engine.

An internal-combustion engine employing a gas as the working fluid used to drive the turbine

This model considered the conceptual idea of replacing the reciprocating engines with a low emission, and high-performance gas turbine engine

A computer aided model and live animation of the parts of a turbine engine was made by referring to data from research papers and verified journals.





Engine study.

Impact of Split and Re-Entrant Type Paton Bowl Geometry Fuelled with Pre Heated Diesel and Biodiesel on a Compression lantion Engine Characteristics

An investigation was carried out with biodiesel and and modifying Piston Bowl Geometry to assess the change in characteristics of the CI Engine.

The project results exhibited a drastic increase of 4% on engine working yield and a 3 % decrease in fuel consumption of and all emission characteristics for the Re-Entrant PBG



















