

PERI SHANMUKHA RAM

Mechanical Engineer

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<https://shanmukhram1.github.io/portfolio>

EXPERIENCE

CAD Equalizer Intern

Illemium AI Private Limited

June 2020- Aug 2020

- Designed a 3D model smart garment that monitors the vitals of the human body such as ECG, muscle activity that potentially can help a lot of fitness freaks to enhance their workouts and yoga
- Designed Tesla turbine and performed motion analysis.

CAD Designer Intern

Aditya Precitech Private Limited

April 2019- June 2019

- Designed a student chair with a portable shell (back).
- Designed Planetary motion gearbox and performed motion analysis.

PROJECTS

Design and analysis of lengthwise gradient honeycomb core for obtaining graded beam properties.

Technology/Tools: SolidWorks, ANSYS workbench.

Jul 2020-Dec 2020

- Designed a gradient cell Honeycomb Structure and compared its behaviour with regular Honeycomb Structure when subjected to different types of loads. Modal analysis and random vibrational analysis was also performed to determine vibrational characteristics of structure and to determine structural response under random loading respectively.

Agri-Bot.

Technology/Tools: Arduino Uno, Motor driver, RF controller.

December 2018 – April 2019

- Worked in a five person team to build an automated machine that completes every possible manual work into automation. This project mainly focuses on decreasing farmers efforts in works like plowing, watering to crops, etc. I Designed the Actuator for this di-wheel.

Glass cutting machine.

Technology/Tools: Raspberry pi 2, Motor Driver, RF controller.

Dec2017 – April 2018

- Developed a four wheeler with a tungsten carbide glass cutter to the front axle. This vehicle is controlled by a radio frequency controller allowing it to cut the glass in any desired shape.

EDUCATION

Bachelor of Technology in Mechanical Engineering.

VIT-AP (Vellore Institute of Technology-Andhra Pradesh)

July 2017 – May 2021 (Expected) CGPA : 8.4

Higher Secondary

Sri Chaitanya Jr.Kalasala

June 2015 – Mar 2017 Percentage : 91.3%

Secondary

Sri Chaitanya Techno High School

March 2015 CGPA : 9.0

SKILLS

C++

Java

SolidWorks

AutoCAD

Ansys

Fusion 360

CATIA

ACHIEVEMENTS

- Secured 3rd position in CAD design competition held by VIT-AP University. 2018
- Elected as Basketball captain of VIT-AP University for two consecutive years. 2017-2019
- Elected as Head boy of school in Class X 2015

INTERPERSONAL SKILLS

- Strong Communication
- Team Leadership
- Analytical Thinking
- Organization and Prioritization.

CERTIFICATION

- Workshop on Kinematic Motion Analysis Using Adams - VIT-AP University
- Workshop on CNC and PLC Machines - VIT-AP University
- AutoCAD - AIM Institute, Hyderabad
- Rendered Voluntary services bringing awareness among the villagers on the implications of drinking contaminated waters- Bala Vikasa