Mr. Santhosh Raajaa S S

Student- 3D Artist- Software Developer (Pythoneer)- Aeronautical Engineer

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Being a 4th year student at Rajalakshmi Engineering College, pursuing my UG degree, B.E Aeronautical.

EDUCATION

SRGDS matric Higher Secondary School (Schooling)   *2015-2016 and 2017-2018*

Done High school studies without any arrears

state board - 10th (96.8%) and 12th (91.83%)

Rajalakshmi Engineering College   *from 2018 to 2022*

B.E Aeronautical

CGPA- *8.89/10*

(I've been freelancing for the past 6-months and have helped many people with Programming and 3D Product Designing. Check Out my portfolio site to know about my skills and work)

INTERNSHIP EXPERIENCE

- Drone Development internship at **Barola Technologies Ltd**.
- One month online course on "Python For ML" at **Great Learning** with certification
- Online Intern at **Kaashiv InfoTech** on Drone modelling

WORKSHOPS ATTENDED

- RC airplane design Workshop by **GEEKSTACK** at ***PSG college of Engineering***
- 3 days workshop on E-vehicle engineering and design criteria
- One among the 5 members representing the Department of Aeronautical Engineering in **Mini-Project Expo** for the open house 2020 event in REC.

SKILLS

1. 3D artist, Procedural Modelling (Blender Geometry Nodes), KivyMd App Dev, Frontend Development, Video-picture editing and Good at Communicating with people.

2. **Known softwares:**
   - **Analysis software:** Ansys and MATLAB

   - **Known Programming Lang:** Python, Go-lang, C (intermediate)

   - **Web Tech:** React and React-Native frontend development(intermidiate), Nodejs, Fresh Framework (beginner)

   - **Editing software:** After Effects, Krita, Photoshop

   - **Designing Software:** Blender (for 3D designing) and CAD modelling (CatiaV5, Fusion360, FreeCad, Solidworks)

   - **3D Modelling Skills:**
     - **Low Poly Modelling**
     - **Product Designing**
     - **Product Animation**
     - **Procedural Geometry Modelling (Blender Geometry Nodes)**
     - **Tutoring Blender (Advanced), Unreal (Beginner), Houdini (Beginner)**
     - **Rigging and Animation**

HONORS

Working prototype for reusing Thermal Power Plant Fume Energy:
July, 2017 — (on my 11th grade)

Puthiya Thalaimurai (Main Stream Media Channel)
"veetuku oru Vingnani"

- Designed a prototype for reusing Thermal Power plant Fume energy and got placed 2nd in State level.
- Later the conceptual idea was rewarded with 10000rs.

Aerothon 2021
April 2021 - May 2021

SAEINDIA-Society of Automotive Engineers

- Placed 7th in National level for designing a fully automated drone (including simulations, analysis and 3D modelling) and animated the working performance and was rewarded 5000rs

- We, as a team of 2, have designed a conceptual model of SSTV, to make supersonic transport possible for every people without compromising SAFETY (an alternative for concorde and tupolev-144

On Thermodynamics

March,2019

2s and4s engine port diagram

- Designed a software as a group of 2, in simulating 2s and 4s engine port diagram functioning using python3-Tkinter
    - GitHub link

On Aerodynamics:

June,2019

Flow visualization tech

- Designed a software (executable application) as a group of 2 using **Python3-Tkinter** which simulates *Hele-Shaw flow visualization.*
    - GitHub link

On Structures and Strength of material:

November,2019-January,2020

Mohr's circle

- Designed a software to analyze material stress criteria and to draw Mohr's circle using Python3-PyQt5
    - GitHub link

Block-Chain:

March-November,2020 (during lockdown)

Project 2020 - "RECurrency"

- For the event *"Future project 2020"*, we have developed a website and a web-viewer application for **cryptocurrency transaction** with blockchain, (Using Flask, Python3)

EXTRA-CURRICULAR ACTIVITIES

- Athletic Sprinter
- Participate in online 3D sculpting and Nodevember competitions
- Answering posted questions in Discord Blender community

Hobby:

Hobbies include reading scientific journals and Tamil poetry books, Watching Anime

LANGUAGES KNOWN

Tamil ('Native or bilingual proficiency' and 'Full professional proficiency'), **English** (Full Professional working proficiency), **Japanese** (Elementary proficiency)