



Mr. Santhosh Raajaa S S

Student- 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- 8.94/10

(I would love to study rocket science and science beyond earth boundaries, also good at math and physics, which led me to join in REC to pursue B.E aeronautical)

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, Sublime-Text package developer (*sublime-text is an [open-source](#) text editing software for programming*), video-picture editing and good with "advanced google search"
2. **Known softwares:**
 - **Designing Software:** Blender (for 3D designing) and CAD modelling (CatiaV5, Fusion360, FreeCad, Solidworks)
 - **Analysis software:** Ansys and MATLAB
 - **Known Programming Lang:** Python, Go-lang, C (intermediate)
 - **Web Tech:** HTML, CSS, JS and MYSQL
 - **Editing software:** VideoPad, Krita, Photoshop

ACADEMIC MINI PROJECTS

On Thermodynamics

March, 2019

2s and 4s 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](#)

Crypto-Currency:

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)

Flight Vehicle Design:

January-March, 2021

Super-Sonic Transport Vehicle

- 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)

HONORS

July, 2017 – (on my 11th grade)

Working prototype for reusing Thermal Power Plant Fume Energy:

Puthiya Thalaimurai - "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 CAD modelling) and animated the working performance and was rewarded 5000rs

EXTRA-CURRICULAR ACTIVITIES

- Athletic Sprinter
 - 3D sculpting and animation making
 - Participate in Sublime package developing online competitions
 - Answering posted questions in Stack-Overflow and Blender community
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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)