# MUGESH S

STUDENT/INNOVATOR

[PORTFOLIO]

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Chennai

Passionate IT undergraduate with proficient programming skills and ingenious designing skills. Avid learner, like to visualize things and find out of the box solutions. Innovative in every aspect, seeking to prove and improve my skills.

## PROGRAMMING

**Python** ●●●●●○○

**C** ●●●●○○○

**C++** ●●●○○○○

## DESIGNING

**Blender** ●●●●●●○

**Substance Painter** ●●●●○○○

**Photoshop** ●●●●○○○

**Unity** ●●●○○○○

**Unreal Engine** ●●●○○○○

## PERKS

- **Out of the box thinking**
- **Innovator**
- **Optimist**
- **Realist**

## EDUCATION

- **SENIOR SECONDARY ( SSLC ) -** 2015 - 2016

  **SCHOOL –** ZION MATRIC HR. SEC SCHOOL **PERCENTAGE – 92%**

- **HIGHER SECONDARY ( HSC ) -** 2017 - 2018

  **SCHOOL –** ZION MATRIC HR. SEC SCHOOL **PERCENTAGE – 77%**

- **B.TECH INFORMATION TECHNOLOGY -** 2018 – PRESENT

  **COLLEGE –** PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE

## ACHIEVEMENTS

**SAP LABS SEMICOLON HACKATHON (2019) - BANGALORE**

- BRAIN MACHINE INTERFACE --- FINALIST

**SCHOOL OF INNOVATION INDIA BY FACEBOOK (2020)**

- AN AUGMENTED REALITY PROGRAM WITH SPARK AR

**SIH 2020 (HARDWARE EDITION) -- WINNER**

- MILLIMETER WAVE BASED PASSENGER SCANNER -- WINNER

**TOYCATHON 2021 – DIGITAL SOLUTION – FINALIST**

- MAKING A GAME BASED ON INDIAN CULTURE, HISTORY AND TRADITION -- FINALIST (CURRENTLY WORKING)

# PROJECTS

### MM waves based passenger scanner -- Smart India Hackathon 2020

- The idea is to use millimeter waves as a medium to penetrate the target and collect the reflected waves to make a scanned image of the target. This target may be a human or luggage. The core principle behind this is the permeability of different materials. This helps in differentiating every possible type of object including metals and non metals.

### Agriculture Automation with IoT and Data analytics -- Viswakarma Awards

- The project was to build a smart irrigation system to withstand the overwhelming climatic changes. This irrigation system has a bi-functional ability to tackle abnormal rain and extreme summer seasons. We also use data analytics and ML methods to provide the best crop suggestion, fertilizers, water requirements, etc., by gathering datasets like location, geographical conditions, weather, type of soil, soil nutrients, etc.

### Brain-Machine Interface (BMI) – SAP LABS SEMICOLON HACKATHON

- This project is about integrating humans and machines together by communicating to the machines directly using neural waves. The EEG waves from the brain are measured non-invasively using a single channel wireless EEG wave sensor and manipulated to perform specific tasks.

# INTERNSHIP

### VAAYUSASTRA AEROSPACE PVT.LTD – IIT-Madras Research Park

- Research and Development Intern --  May 2021 – present

### My Furnish Store – AR based furniture company

- 3D Generalist (Visualizer) -- May 2021 – July 2021