

# Selva Prasanna S

Engineering New grad with a passion for Programming and Analytics. I thrive on staying up-to-date with the latest trends in technology and have a natural adaptability to new tools and frameworks. Equipped with a good understanding of data structures and algorithms, I am driven to solve complex problems through logical thinking and systematic approaches

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## EDUCATION

### Bachelor of Technology - B.Tech

SASTRA Deemed University

08/2019 - 06/2023

CGPA: 6.7759

### Higher Secondary - XII

SRV Matric Higher secondary school

06/2018 - 04/2019

Percentage : 86

### High School - X

SRV Matric Higher secondary school

06/2016 - 05/2017

Percentage : 97.2

## PROJECTS

### Development of a Virtual Reality simulation to study auto-rickshaw driver's posture during an accidental scenario

Main Project - SASTRA University

01/2023 - 05/2023

Achievements/Tasks

- **Research objective:** Evaluate the impact of driver positioning during auto rickshaw accidents.
- **VR module development :** Created a Virtual Reality module based on the Driver Behaviour Questionnaire (DBQ) for accident scenarios using **UNITY** and **BLENDER** software. **VR experience:** Volunteers experience a virtual crash scenario by immersing themselves in the developed VR environment.
- **Biomechanics study:** Volunteers are fixed with markers on their body joints in a biomechanics laboratory **to measure joint angles** during the simulated crash. **Importance of results:** The study's findings will enhance understanding of driver posture during crashes.
- **Responsibilities:-** Developing a Virtual environment using UNITY, Animations, Data interpretation and Visual 3d professionals for ankle measurements.

### Ride by Wire Technology

Mini Project - SASTRA University

04/2022 - 06/2022

Achievements/Tasks

- **RBW throttle** uses an electronic controller instead of a physical cable to regulate the engine's air-fuel mixture.
- The system relies on a sensor to detect the hand throttle movement, transmitting this data to the ECM/ECU.
- The ECM considers various factors like engine speed and gear selection before sending signals to the electronic throttle body (ETB) for precise throttle adjustments.
- The mathematical representation of the RBW throttle system is achieved using **SIMULINK** (MATLAB).
- Responsible for developing comprehensive documentation that includes clear flow charts, detailed pie charts, and informative graphs to aid understanding.

## SKILLS

Python

C++

Web Security

HTML & CSS

C programming

SQL

Unity

MS Office

Creo

Ansys

Brain Storming

Support Mindset

strong communication

DSA - Basics

adaptability

## CERTIFICATES

### Web Security - Udemy

Web Security, vulnerability and penetration testing, Bug bounty hunting ,Proxy, HTML, XML, SQL, Bruteforce injection

### Python - Udemy

Python basics, OOPS, Generators, modules, Scripting, unit testing

### SQL -Basic

Solo-learn basics of SQL, join, where, select, Queries statements

### Python for Data Science

Basic Python scripting for Data Science including Numpy, Pandas - IBM

## ACHIEVEMENTS

### HackerRank skill certificate Python and Problem-Solving

Completion of python and Problem solving skill tests in HackerRank platform

### International Conference on Digital transformation and manufacturing

Conference on Digitalization in Industries and Manufacturing Processes of mechanical Engineering(April 7 to 9)

### NPTEL - Cloud computing and Computer Graphics

Basic theoretical aspects of Cloud and CG

## LANGUAGES

English

Full Professional Proficiency

Tamil

Native or Bilingual Proficiency

## INTERESTS

Computer hardware & PC builds

Coding

Game Development

Organizing