SELVA PRASANNA

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- Highly ambitious 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

PROJECT WORKS

2023 Done my Main project on the **development of a VR simulation to study auto rickshaw driver posture during an accident scenario**

- **Research objective**: Evaluate the **impact of driver positioning** during auto rickshaw accidents.
- **VR module development**: Created a Virtual Reality module based on the Driver Behavior 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**: 10 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 and inform future vehicle design improvements and safety regulations.
- **Responsibilities** : Developing a Virtual environment using UNITY, Animations, Data interpretation and Visual 3d professionals for ankle measurements.

2022 Done My Mini-project on **Ride by Wire Technology**

- **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).
- **Responsibilities** ; developing comprehensive documentation that includes clear flow charts, detailed pie charts, and informative graphs to aid understanding.

EDUCATION

SRV matric hr sec school

SSLC -2017- 97.2%
HSC - 2019- 86%

SASTRA Deemed University

2019 -2023
Bachelor of Technology (B.Tech)
Mechanical engineering
CGPA - 6.7759 (67.75%)

SKILLS

- **Web security**
- **Python**
- **C++**
- **C programming**
- **HTML 5 , CSS 3**
- **Unity**
- **SQL**
- **Creo**
- **Ansys**

2023

HackerRank skill certificate **in Python** and **Problem solving**

2023

Completed certification on **Web Security** and **Python** in **Udemy**

2022

Completed certification course on theoretical aspects of **Cloud computing** conducted by **NPTEL**

LANGUAGES

English Tamil