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 Mechanical Engineering
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 | C programming | HTML & CSS | SQL | Unity | MS Office | Creo | Ansys | Brain Storming | Support Mindset | strong communication | adaptability

CERTIFICATES

Web Security
Web Security, vulnerability and penetration testing , Bug bounty hunting - Udemy ZTM

Python
Python from Basic to Advanced - Udemy ZTM

SQL -Basic
Solo-learn basics of SQL

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