NAME: Kamal Tadi

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CAREER OBJECTIVE:

- To work for an organization which provides opportunity to improve my skills and knowledge to growth along with the organization.
- To ensure a challenging position in a reputable organization to expand my learning's, knowledge and skills.

EDUCATION:

Jawaharlal Nehru Technological University, Kakinada
Master of Technology in Avionics- Nov 2021 - Oct 2023
CGPA: 7.75/10.

Aditya College of Engineering and Technology, Kakinada
Bachelor of Technology in Electronics and Communication Engineering - June 2016 - Oct 2020 - CGPA: 7.09/10.

Narayana Junior College, Kakinada
Intermediate MPC - June 2014 - April 2016 - Marks: 86.7%.

Little Buds Public School, Indrapalem, Kakinada
SSC – June 2013 – April 2014 - CGPA: 9.3/10.

PROJECT:

Project1(MTECH)

Design of Fractional Filter integrated FOPID Controller based Longitudinal Autopilot for Aircraft:

The project concentrates on mathematical modelling of Aircraft's Longitudinal motion and design of Autopilot for aircraft stabilization using Fractional Order PID controller. Conventional control techniques like PID fails to mitigate the effects resulted due to external disturbances, making the aircraft to enter into un-stabilized state. To overcome this a fractional filter based FOPID controller is proposed and designed using FOMCON toolbox and functionalities related to control design and simulation block set in the MATLAB simulating environment. The selection of filter parameters and gains for FOPID is done by optimizing the IAE minimized. The performance analysis is carried out by comparing the performance metric, time and frequency domain response of the system with proposed controller in comparison with conventional control strategies like PID, FOPID and FFPID. The effectiveness of the proposed controller has outperformed the other conventional control techniques by mitigating the effects of external disturbance and making the system to stabilizes at the earliest.

Project2(BTECH)

Design of Accident Prevention, Detection and Location Reporting System for Smart Helmet:

The idea of the project is to design an Arduino based embedded system to reduce the damage incurred by road accidents in our country, as majority of the road accidents take place mostly by human errors while driving motor vehicles. The designed system makes it mandatory to were helmet by the driver, ensuring it through IR sensor placed in the helmet and eventually controlling the engine starting. It also senses whether he have consumed alcohol through breath analyser sensor and inhibits engine starting by generating waring. The GSM and GPS modules have also been included in the project to facilitate accident detection and send a message to the nearest emergency Service and family members.

TECHNICAL SKILLS

- **Languages:** c Language, JAVA, MATLAB
- **Full Stack Development:** HTML
- **Database:** SQL, Oracle DBMS

PACKAGES AND FRAME WORK FAMILIAR WITH

- MATLAB
- Simulink
- NI LabVIEW
- MS office

STANDARDS, GUIDELINCE AND TOOLS RELATED TO DEVELOPMENT OF SAFETY CRITICAL SYSTEMS

-Had Conceptual Knowledge On:

- ARNIC-429, ARNIC-629, MIL-STD-1553B, DO-160
- ARP-4754, DO-178B, DO-254
- IBM-RATIONL DOORS, ROSE AND FUNCTIONAL TESTER

STRENGTHS:

- Good in analytical Thinking
- Problem Solving
- Proficient in verbal communication

DECLARATION:

I hereby declare that the above information is correct to the best of my knowledge