SOUMYA RANJAN DAS

ELECTRICAL ENGINEERING

CONTACT

8777628280

soumyaranjan07new@gmail.com

https://mesoumyaranjan.github.io

https://www.linkedin.com/in/soumya-ranjan-das-540847250/

SKILLS

CONTROL SYSTEM DESIGN

MATHEMATICAL MODELLING

MATLAB / SIMULINK

ARDUINO

AI/ML

PYTHON

C/C++ PROGRAMMING

EDUCATION

BTECH, ELECTRICAL ENGINEERING

IIT (ISM) DHANBAD

2022-2026

SGPA 8.9
CGPA 8.52

MAJOR COURSES

BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING

SIGNALS SYSTEMS AND NETWORKS

ANALOG AND DIGITAL ELECTRONICS

CONTROL SYSTEMS

ELECTRICAL MEASUREMENTS

LANGUAGES

English

Hindi

PROFILE

I am passionately exploring the intricate world of electrical systems, from circuit design to digital electronics. In my academic journey, I've delved into diverse topics, including power and embedded systems. Eager to understand the synergy between hardware and software, I seek connections with fellow tech enthusiasts, professionals, and mentors for meaningful discussions, collaborations, and innovative opportunities

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EXPERIENCE

CONTENT CREATION INTERN

Mathongo, Virtual Internship • Jan 2024 - Jan 2024 (1 month)

Collaborate with fellow interns to design questions for physics which will be used by students all over India for their Competitive exam prep. Question tagging according to the difficulty order so that anyone can test themselves easily.

ASSOCIATE MEMBER OF ELECTRONICS AND IOT CLUB

IIT DHANBAD • Aug 2023 - Present

CERTIFICATIONS

MATLAB

Mathworks, online NOV 2023 - NOV 2023

https://matlabacademy.mathworks.com/progress/share/certificate.html?id=42f80efe-8fa9-4aa4-a0d6-1a41c320d7ab&

OPENCV

Opencv.org, online DEC 2023 - DEC 2023

https://courses.opencv.org/certificates/0b37355190b14fe8b4c8d4d31130a3bc

Supervised Machine Learning: Regression and Classification

Stanford, Coursera, online JUN 2023 - JUL 2023

https://www.coursera.org/account/accomplishments/certificate/9TXBBEFTUXFB

PROJECTS

PID CONTROL USING NEURAL NETWORKS SIMULATION

APRIL 2024

In this project, I have made an approach for PID gain prediction utilizing neural networks and simulated in the Simulink environment. Simulink provides a powerful platform for modeling, simulating, and analyzing dynamic systems, offering a seamless integration of control algorithms with neural network-based predictors. By harnessing the synergies between control theory and machine learning, this methodology aims to streamline the PID tuning process, offering improved control performance and adaptability to varying system dynamics.

https://github.com/soumya-2911/pid-tuning-using-neural-network

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ELECTRICAL ENGINEERING

Self balancing bike for Eyantra Robotics Compitition

Oct 2023 - Present

We were in the top 50 teams from all over India in the stage 1 of eyantra competition conducted by IIT Bombay. We are currently working on stage 2 of the competition where we are building the bike using arduino nano and IMU GY-87 sensor. The controller is being designed using LQR controller from state space modelling.

https://github.com/soumya-2911/projects-Eyantra_lunarScout