SRIKAR KAMBALADINNE

Course : **B.E. (Hons.)**, Electrical & Electronics, 2024
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ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	FIITJEE	Telangana Board of Intermediate Education (TSBIE)	960 MARKS	2020
CLASS X		SANGHAMITRA SCHOOL	CBSE	468 MARKS	2018

Subjects / Electives	Energy Storage Systems, Microprocessors and Interfacing,, Digital Design, Foundations of Data Structures and Algorithms, Digital Image Processing, Control Systems
Technical Proficiency	LTSpice, HTML + CSS, MATLAB, Python, Simulink, OpenCV, JavaScript, React.js, Data Structures, Front-End Web Development

SUMMER INTERNSHIP / WORK EXPERIENCE

Intern, Controlytics Ai   **Aug 2023 - Dec 2023**

Worked on the following three projects as intern :

1. **Real Time Monitoring and control**: Built a desktop app for real time data monitoring and controlling various microcontrollers and sensors through a graphical interface. It was built using PyQt5 and python. Key features include serial communication , JSON readability, Command control and various ways to visualize the data.

2. **Industrial worker safety/Object detection application**: It is an solution built to monitor and identify hazardous/potential threat areas to employees in industries and send alerts to prevent unauthorized entry and accidents. It was built using OpenCV , yoloV4 ,coco object detection algorithms and libraries. It was implemented using Ip cameras, raspberry Pi 4. Key features include facial recognition, ROI selection, alerting system.

3. **LoRa Config Tool:** LoRa Config Tool streamlines LoRa Module setup for IoT devices, ensuring efficient connectivity with LoRaWAN networks. It offers a user-friendly interface, editable parameters, and command control. The tool presents transmitted data in a human-readable format for better understanding. Key features include: Command control, editable parameters of the lora .

Intern, Vikram Cements(Ultratech Cements)   **May 2022 - Jul 2022**

 The project was on creating awareness on sustainability among the employees and to ensure they follow and implement sustainable practices. Created a sustainability awareness campaign with the help of Vikram Cement's leadership to educate the employees on various sustainability practices and methods. Also learnt about various cement industry practices and safety methods.

PROJECTS

MPPT solar charger for VRFB - energy storage systems, electrical , EV   **Jan 2023 - Apr 2023**
The project focuses on developing a real-time flow control integrated solar PV MPPT charger for Vanadium Redox Flow Battery (VRFB), aiming to optimize charging efficiency and overall system performance. The study enhances the traditional Perturb & Observe algorithm by integrating real-time flow rate control, addressing challenges specific to VRFB charging. simulation were done in matlab simulink. **GitHub Link: https://github.com/KSrikar02/Energy-storage-systems-project**

DIP Assignment(various image processing techniques) - Image Processing   **Feb 2023 - Apr 2023**
This project has the solutions to all the assignment question of DIP(digital image processing) assignment -1 , It includes image processing transforms, histogram equalization ,bit-plane slicing, applying greyscale filters and other image processing techniques . The greyscalevid.mp4 is the original video out of which the outputs are derived. **GitHub Link: https://github.com/KSrikar02/OpenCV-Assignment-1**

Restaurant Website - web development   **Aug 2023 - Sep 2023**
The Indian Restaurant Website is a dynamic web application highlighting the diverse flavors of Indian cuisine. With a warm home page introduction and an interactive menu page, it offers a user-friendly experience. Built using HTML,CSS, Javascript and webpack to bundle the resources. **Github link :https://github.com/KSrikar02/restaurant**

To-Do list - web development   **Oct 2023 - Dec 2023**
This is a simple web-based To-Do List application where users can add, mark as complete, and delete tasks. The project includes HTML, CSS, and JavaScript files to create a user-friendly interface. **GitHub Link: https://github.com/KSrikar02/Simple-ToDo**

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Responsive Web Design	FreeCodeCamp.org

LANGUAGES KNOWN

JAVASCRIPT, CSS, Python, HTML