Adharsh CS

Kochi, India
Bachelor of Technology
Electronics and Communication Engineer

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EDUCATION

•**Bachelor of Technology in Electronics and Communication Engineering** *2020-24*
KMEA Engineering College, Edathala CGPA: 7.81/10

•**12th (Electronics)** *2019-20*
Model Technical Higher Secondary School, Kaloor Percentage: 86.33%

•**10th (Electronics)** *2017-18*
Model Technical Higher Secondary School, Kaloor Percentage: 93%

ACADEMIC PROJECTS

•**Automatic Waste Segregator using Deep Learning** *6 Months*
An IoT-based sorting system achieving an accuracy rate of 86% using Arduino Uno and DL

– Engaged in the collaborative development of an automated waste segregator utilizing Arduino Uno, contributing to innovative waste management solutions
– Spearheaded the integration of Image-based recognition and robotic sorting mechanisms, resulting in streamlined waste categorization and a significant reduction in processing time
– Platform: Arduino IDE, VSCode, Google Colab

•**PID Based Self Balancing Robot** *1 Month*
deployed a robot, showcasing adeptness in control systems and robotics for precise stabilization

– Orchestrated the seamless integration of motor drivers and gyroscopic sensors into project design, optimizing functionality and performance
– Executed control algorithms for balancing and movement, fine-tuning obstacle avoidance for optimal system performance
– Platform: Arduino IDE

•**Telemometer** *1 Week*
A Realtime Temperature and Humidity display using Telegram Bot

– Guided the design and development phases of the telemometer project
– Facilitated the integration of DHT sensors, Arduino microcontroller, and OLED display module, enabling seamless communication with the Telegram platform
– Platform: Arduino IDE, Telegram

INTERNSHIPS AND COURSES

•**Machine Learning and Computer Vision** *30 Hours*
Revertech IT solutions Offline
– Acquired fundamental understanding of Basic Machine Learning principles and applied them to construct an Image Recognition model using Python

•**T-Cad and Antenna Design Internship** *5 Days*
CUSAT, Kochi Offline
– Organised by Cochin University of Science and Technology
– Attained expertise in Antenna design through comprehensive study and hands-on experience with T-Cad and HFSS; leveraged this knowledge to design and optimize antennas

•**Boot Camp on "Allied Technologies for UAS/Drone"** *5 Days*
KMEA, Aluva Offline
– Organised by NIELIT, Calicut
– Gained knowledge in drone capabilities for autonomous navigation and object detection using image recognition algorithms

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, C
Platforms: Arduino IDE, VScode, Blender 3D, Adobe Premiere pro, Adobe After Effects, Figma
Areas of Interest: Circuit Design, Programming, UI/UX Design, Video/Photo Editing
Soft Skills: Self-learner, Resilient, Creative
Languages Known: English, Malayalam