

Adharsh CS

Kochi, India

Bachelor of Technology

Electronics and Communication Engineer

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🌐 Adharsh CS

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 telemeter 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
Reverttech 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: C/C++, Python, HTML

Platforms: Arduino IDE, VScode, CST, LTSpice, 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, Inquisitive

Languages Known: English, Malayalam