YOKITH SURYA M

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Aspiring Electronics and Communication Engineer with hands-on experience in IoT and embedded systems. Passionate about developing innovative solutions for modern challenges in automation and electronics. Seeking opportunities to enhance technical expertise and contribute to innovative and impactful projects.

Projects

PRECISION DELTA ARM FOR WEED REMOVAL IN TURMERIC FIELDS
Erode, India

KONGU ENGINEERING COLLEGE
Nov 2024 - Jan 2025

- Designed an automated weed control system using delta robots with 3 degrees of freedom for precise mechanical weeding and targeted herbicide (or) fertilizer application.
- Implemented image processing on a Raspberry Pi [achieved a 13% reduction in processing time] to obtain x, y, z coordinates, enabling precise weeding while reducing labor, herbicide use, and environmental impact while enhancing agricultural efficiency.
- **Technical Skills:** Raspberry Pi, Image Processing, Robot Control Algorithms, Camera Calibration & Perspective Transformation .

VOICE-CONTROLLED AUTONOMOUS ROBOT FOR REMOTE OPERATIONS
Erode, India

KONGU ENGINEERING COLLEGE
Sep 2024

- Developed a voice-controlled robot with autonomous navigation and obstacle detection in a 30-hour hackathon at Kongu Engineering College, by successfully integrating voice recognition and sensors to enhance user interaction and navigation capabilities.
- Integrated Google and Alexa for voice control, with micro-controller handling motor control and object detection, along with offline voice recognition module for seamless task execution without internet dependency.
- **Technical Skills:** Embedded C, IoT and Cloud Integration, Embedded Systems Design, Arudino.

GAMIFIED REHABILITATION GLOVE FOR STROKE AND PARALYSIS PATIENTS
Erode, India

KONGU ENGINEERING COLLEGE
Nov 2024 - Present

- Designed and developed a smart rehabilitation glove to assist stroke and paralysis patients in regaining mobility through gamified therapy.
- Integrated an MPU6050 motion sensor with an ESP32 microcontroller to track hand movements and provide real-time feedback.
- **Technical Skills:** Embedded C, IoT and Cloud Integration, Sensor Data Processing.

Internship Experience

EPIC MEDIA LABS
Remote

Content Writing and Publishing Intern
MAY 5TH 2022 - AUGUST 5TH 2022

Responsibilities:
- Delivered plagiarism-free articles and assignments on time to keep the website relevant.
- Collaborated with writers and editors in meetings to ensure efficient operations.

Achievements and Results:
- Published 20+ SEO-Optimized articles, improving the website's traffic.
- Collaborated with analytics teams to track content performance metrics, generating actionable insights that informed future strategy.
- **Technical Skills:** Microsoft Office, Google Docs, Google Meet, Slack, ClickUp, Paraphrasing Tools, SEO Optimization Tools and WordPress.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills and Content Management Strategy.

Education

KONGU ENGINEERING COLLEGE
Erode, India

Bachelor of Engineering in Electronics and Communication Engineering
Sep 2023 - Present

- **Cum GPA:** 7.77/10 (As of 5th Semester)

KONGU HI TEK POLYTECHNIC COLLEGE
Karur, India

Diploma in Electrical and Electronics Engineering
May 2020- May 2023

- **Cum GPA:** 8.5/10

Skills and Competencies

Certifications	Amazon Web Services Certified Cloud Practitioner [Valid until 2028]
Responsibilities	Executive member in ECE Association, NSS, and Rotaract.
Programming	Embedded C, Python, Assembly language, Verilog HDL, and AppScript.
Soft Skills	Strategic Planner, Team Player, Learning Agility, Critical-Thinking, and Meticulous.

Achievements

2024	**1st Place,** Paper Presentation on Smart Navigation Using AR	*Sri Krishna College of Engineering and Technology*
2024	**1st Place,** Circuitrix	*Sri Krishna College of Engineering and Technology*
2024	**Best Project,** ECE Hackathon	*Kongu Engineering College*
2024	**1st Place,** Techthirst- II	*Kongu Engineering College*

Interests

Technology	Networking, Edge Computing, and Cloud Computing
Hobbies	Badminton, DIY Electronics, PC Building and Cinematography