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.

Work Experience

EPIC MEDIA LABS   *Mumbai, India*

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)
- **Core Subject Area:** Data Communication Network, Digital Signal Processing, Microprocessors and Microcontrollers, Control Systems, Analog and Digital Circuits, and VLSI.

KONGU HI TEK POLYTECHNIC COLLEGE   *Karur, India*

Diploma in Electrical and Electronics Engineering   *May 2020- May 2023*

- **Cum GPA:** 8.5/10
- **Core Subject Area:** Circuit Theory, EV Technology, Generation Transmission and Distribution.

Skills and Competencies

Certifications	Amazon Web Services Certified Cloud Practitioner [Valid until 2028]
Responsibilities	Executive member in ECE Association, NSS, and Rotaract.
Programming	HTML5, CSS3, Java, JavaScript, Embedded C, Python, Assembly language, Verilog HDL, and AppScript.
Miscellaneous	Linux, Proteus, AutoCAD, SolidWorks, Micro-controllers and Microprocessors, Microsoft Office, Git, and LaTeX(Overleaf).
Soft Skills	Strategic Planner, Team Player, Learning Agility, Critical-Thinking, and Meticulous.

Interests

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