

KAVYAPRASAD P

ELECTRONICS AND INSTRUMENTATION ENGINEER



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About Me

An Electronics and Instrumentation undergraduate with a passion for innovation, research, and solving real-world challenges through technology. I aim to develop sustainable and meaningful solutions by blending theoretical understanding with hands-on implementation, while continuously learning and adapting with ever evolving dynamic environments.

Education

Sri Jayachamarajendra College of Engineering	CGPA:9.20
Viveka PU college	PUC-95.17%
Govt. Girls residential high school	10th std-95.54%

Projects

Braille Clock for the Visually Impaired	<ul style="list-style-type: none">Technologies: STM32, RTC, Stepper Motor, AccelStepperDeveloped a tactile Braille clock using STM32, RTC, and stepper motors for visually impaired time reading.Implemented precise motor control using AccelStepper, gaining hands-on experience in embedded systems and real-time interfacing.
IoT-Based Agriculture Monitoring System	<ul style="list-style-type: none">Technologies: Raspberry Pi Pico W, Python, Adafruit IODeveloped an IoT system to monitor soil moisture, temperature, and humidity using sensors.Programmed with Python and visualized real-time data on Adafruit IO.Strengthened microcontroller programming and IoT integration skills.
Pain Level Classification Using Facial Expressions	<ul style="list-style-type: none">Technologies: MATLAB, CNN, Image ProcessingDesigned a system to classify pain levels (No, Mild, Severe) from facial images using a custom CNN.Used MATLAB for image preprocessing, feature extraction, and classification.Created a GUI for real-time pain detection to assist in patient monitoring

Skills

Technical Skills

Programming Languages: Python, C++ (OOP), Assembly Language Programming (ALP)
Software & Tools: MATLAB, Arduino IDE, Adafruit IO, Operating Systems .
Hardware & Embedded Systems: Arduino, STM32, Sensors & Actuators, Microcontrollers,
Domain Expertise: Process Control, Programmable Logic Controllers (PLC),Control Systems, Computer Networks

Soft Skills: Effective Communication, Time Management, Leadership, Team Collaboration, Work Ethic, Networking

Experience

Balaga	Event manager	11/2023- present
Vision	Co-Founder	11/2024-present
IEEE-SJCE	Member	09/2023-09/2024

Certificates

IEEE-SJCE

- SOLDERING AND ETCHING WORKSHOP
- MATLAB WORKSHOP
- ROBOTICS'15 WORKSHOP

SOFT SKILLS AND POWER SKILLS TRAINING

BY CoachEd

NATIONAL LEVEL Youth fest-YUVA BIMBA.

INTERESTS

- Acting and Dance
- Writing
- Hand-craft
- Editing
- Travelling

Languages

- Kannada
- English