

# KAVYA RAJALINGOLLA

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GitHub- <https://github.com/Kavya-rajalingolla>

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## CAREER OBJECTIVE

To secure an Embedded Software Engineer role, leveraging my strong technical foundation and hands-on experience to contribute innovative solutions and deliver high-quality embedded systems in a dynamic organization.

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## PROFESSIONAL SUMMARY

- Trained Embedded Systems professional with experience in programming, communication protocols, and hardware integration.
  - Proficient in coding, debugging, and testing embedded application using modern tools and methodologies.
  - Skilled in interpreting technical schematics, analyzing datasheets, and creating precise documentation.
  - Hands-on experience with microcontrollers, Linux, and real-time operating system (RTOS).
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## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Embedded C, Python, Advanced Python
  - **Embedded Operating Systems:** Linux, RTOS
  - **Communication Protocols:** UART, SPI, I2C, CAN, USB
  - **Microcontrollers & Boards:** 8051, STM32, Arduino, Raspberry Pi 4, ARM
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## EDUCATION

- **B-Tech in Electronics and Communication Engineering (ECE)**  
Vijay Rural Engineering College, 2018-2022 | 67%
  - **Intermediate (12th Grade)**  
Sri Medha Junior College, 2016-2018 | 93%
  - **Secondary School (10th Grade)**  
Shraddha High School, 2015-2016 | 87%
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## PROFESSIONAL TRAINING

- **Embedded Systems and IoT Certification**  
ISM University of Skill, Hyderabad | Nov 2022 - May 2023

# PROJECTS

## 1. Smart Agriculture Using Arduino

- Designed and implemented a system integrating sensors and actuators to monitor and optimize agricultural parameters.
- Utilized Arduino microcontrollers for automation, improving farming efficiency.
- Tools and Technologies: Arduino IDE, C programming, Soil Moisture Sensors.

## 2. Pick and Place Robot

- Developed a robotic arm for automated object transfer across locations.
- Implemented precise control mechanisms to enhance efficiency in manufacturing and logistics applications.
- Tools and Technologies: Python, STM32, Motor Drivers.

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# ACHIEVEMENTS & CERTIFICATIONS

- Certification in Embedded System
- Certification in Python

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# ADDITIONAL SKILLS

- Strong documentation and report-writing skills
- Effective team collaboration and problem-solving abilities
- Working knowledge of quality assurance in hardware components