**Appala Kalyan**

Vijayawada, Andhra Pradesh

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# EDUCATION

**Amrita School of Engineering**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

*B. Tech Oct - 2022 - Present, Tamil Nadu*

*Electrical and Computer Engineering – CGPA: 8.76/10.00*

Academic Excellence Award 2022 – 24 *-* *Ranked Top in the Electrical and Computer Engineering Branch*

**S R Educational Academy** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

*Intermediate June 2020 - July 2022, Andhra Pradesh*

*MPC – Grade: 9.75/10.00*

**Ravindra Bharathi E.M High School** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

*SSC April 2020, Andhra Pradesh*

*Grade: 9.85/10.00*

# PROJECTS

**Electronic component Detection using ML and ESP-32 CAM** . . . .

*Python Language, Jupyter, Arduino IDE Sep - Oct 2024, BTech*

* Identifies components such as LCDs, capacitors, breadboards, LEDs, wires, ICs, batteries, and switches. In this project, there is a GUI which has four options, ESP32, Mobile Camera, Laptop Camera

**Customer Information System using LPC2148**. . . . . . . . . . . . . . . . . . . . . . .

*C Language, Keil uVision4 Aug - Nov 2024, BTech*

* Developed a customer information system prototype using LPC2148 microcontroller with Bluetooth interfacing. The system features an LCD display capable of multilingual support in English, Hindi, and Tamil

**Controlling Angular Velocity of a DC Motor Using PID Controller and Observer in Ultrasonic sensor**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

*Case Study Oct 2024, BTech*

* This project focuses on controlling the angular velocity of a DC motor using a PID controller and an observer, incorporating feedback from an ultrasonic sensor.

**Smart Vision Surveillance System**. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

*Python, Arduino Aug 2024, BTech*

* Designed and implemented a surveillance system using the ESP32-CAM module and Mobile using Arduino and Python.

**Analysis of DC Generator and Motor using OOPS**. . . . . . . . . . . . . . . . .

*Python July 2023, BTech*

* Developed a system to evaluate the efficiency and torque of a DC generator powered by a DC motor. The project analyzes energy conversion and identifies the suitability of the motor-generator setup for various applications.

# CERTIFICATIONS

* *C Programming for Beginners*
* *SQL Foundations*

# OBJECTIVE

Pre-final year Electrical and Computer Engineering student at Amrita Vishwa Vidyapeetham with a passion for technology and problem-solving. Skilled in ARM architecture, Assembly language, and coding, and enjoy working in teams to create practical and innovative solutions. Looking for opportunities to learn, grow, and make a positive impact through my work.

# SKILLS

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| **Languages** | C, Assembly Language, Python (Intermediate), SQL (Basic), MATLAB (Intermediate) |
| **Microcontroller** | PIC16F877A, LPC2148, Arduino UNO |
| **Office** | Excel, PowerPoint, Word |
| **Tools** | Jupyter, Visual Studio Code, Keil uVision4, MPLAB IDE, Arduino IDE |
| **Soft Skills** | Adaptivity, Creativity, Quick Learning |

# LANGUAGES

# - English (Full Professional Proficiency)

# - Hindi (Bilingual Proficiency)

# - Telugu (Native or Bilingual Proficiency)

# - Tamil (Limited Working Proficiency)

# INTERESTS

- Embedded Systems (ARM and PIC)

* Advanced Control Systems

# HOBBIES

- Swimming and playing cricket, demonstrating a passion for teamwork. Also interest in the stock market

# REFERENCES

- Available on Request