# ABINAYA .M

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# Career Objective

# Motivated and curious student with a passion for innovation and learning. Open-minded and eager to develop skills while contributing to meaningful projects

# Educational Qualification

# K.S.Rangasamy College of Technology, Tiruchengode, India.

Bachelor of Engineering in Electronics And Communication Engineering ( 2022 – 2026 )

CGPA -8.29(Upto fourth semester )

**Completed schooling at K.G. Matriculation Higher Secondary School,vettayampalayam.**

* HSC - 87% (2022)
* SSLC- 97.2%(2020)

**Skills**

**Technical skills:**

* Python
* PCB design

# Soft Skills

# Leadership

# Communication

# Teamwork

# Membership details:

# Member of Institute of Green Engineers 2023-2024

# Member of Creative Association For Adducing Communication Engineers (CAFACE) 2022-2026

# Accomplishments:

* **Machine gun sound generator :** A **Machine Gun Sound Generator** using the 555 IC is a circuit designed to mimic the rapid firing sound of a machine gun. By configuring the 555 timer in astable mode, the circuit produces low-noise, high-performance audio resembling a machine gun's repetitive bursts. It’s an analog design suitable for projects requiring simple sound effect.
* **LED chaser circuit :** An **LED Chaser Circuit** using the IC CD4017 is a simple sequential light display system. The CD4017 is a decade counter IC that drives the LEDs in a sequential pattern when connected to a clock signal, typically generated by a 555 timer IC. This circuit is widely used for decorative lighting, indication systems, and basic electronics projects.
* **Design of power supply:** A **12V to 5V Converter Circuit** is used to step down a 12V DC input voltage to a stable 5V output, often used to power 5V devices like microcontrollers, sensors, and other electronics. This can be achieved using a voltage regulator like the **LM7805** or a **buck converter,** which efficiently reduces the voltage while maintaining a steady output.
* **Equipment Access Control System :** This project integrates an ESP32-based embedded system with Firebase Cloud for secure, real-time device protection. It features password authentication, relay control, LCD feedback, and a buzzer for alerts. The project combines embedded hardware and cloud computing for advanced device control. Firebase ensures real-time password updates and remote access, making the system secure and highly adaptable.
* **Safety belt for sewage cleaners:** The "Safety Belt for Sewage Cleaners" is a wearable device designed to protect workers from hazardous gases like methane, hydrogen sulfide, and ammonia. It features a gas sensor, microcontroller, and alert system (buzzer and LED lights) to monitor environmental conditions and notify workers of dangerous levels. This compact, user-friendly solution enhances worker safety by providing real-time alerts and manual distress signals in hazardous work environments

# Certifications:

* Winner at **Home automation** on Crash course at KS.Rangasamy college of Technology, Tiruchengode.
* Winner at **Design of digital circuit** on Electronic design laboratory at KS Rangasamy college of technology,Tirunchengode.
* Paper presented on **Application of physics in real life** at Muthayammal Engineering college Namakkal.
* Paper presented on **Evoloution of AI Technology** at Kongu Engineering college , Erode.
* Completed a course on NPTEL with Elite certification on “**Introduction to Industry 4.0 and Industrial of things”**
* Recently participated in **MSME hackathon 4.0** worked on the **Polyfold hub** project and reach final level.

# Personal Details

**Parent’s name :** Mr.N.Manoharan & Mrs.M.Geethanjali

**Date of Birth :** 26-08-2005

**Age :** 20

**Personal traits :** Team work, Adaptability, Problem solving

**Extra curricular activities :** Dance, Good

**Languages known :** Tamil and English