

SHANMUGANATHAN K

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OBJECTIVE

Motivated Electronics and Communication Engineering graduate with a strong foundation in circuit design, signal processing, and embedded systems. Seeking an entry-level role to apply my technical knowledge and problem-solving skills in a dynamic environment.

EDUCATION

✓ DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

2022-2026

BE.Electronics and Communication Engineering

CGPA: 8.3

✓ GEORGE HIGHER SECONDARY SCHOOL

2021-2022

HSC

67%

✓ GEORGE HIGHER SECONDARY SCHOOL

2019-2020

SSLC

62%

TECHNICAL SKILLS

HTML.

Python

Java

C programming.

Matlab

SOFT SKILLS

Communication Skills

Problem Solving

Time Management | Adaptability

Leadership | Team work

ADDITIONAL INFORMATION

CERTIFICATES

1.AWS Academy graduate.

2.Learnathon completing 8 courses.

3.RBI Quiz Participation

4.Prathamic and madhyama certificate for Hindi Exams.

5.NPTEL online certification.

6.MongoDB certification-MongoDB university , (2025).

PROJECTS

✓ SMART STREET LIGHT USING LDR AND IR SENSORS

Automatic Lighting Control – The system uses an LDR (Light Dependent Resistor) to detect ambient light levels, ensuring that street lights switch ON during night and OFF during daytime, reducing manual intervention.

Smart Energy Saving – An IR sensor is used to detect movement of vehicles or pedestrians, so the street light glows at full brightness only when motion is detected and stays in dim/low power mode otherwise, saving significant energy.

Efficient and Cost-Effective – The combination of LDR and IR makes the system intelligent, low-cost, and energy-efficient, making it suitable for smart city applications with improved safety and reduced electricity consumption.

WORKSHOP

Participated in the AI Revolution in Cyber Security Summit held at Dhanalakshmi Srinivasan Engineering College (Autonomous), Perambalur on 24th & 25th November 2023.

Attended a workshop on RF Devices Modelling and Optimization using HFSS Software at M.A.M College of Engineering, Trichy on 26th October 2024.

Participated in a two-day workshop on Interfacing Peripherals with Arduino at Dhanalakshmi Srinivasan Engineering College (Autonomous), Perambalur on 28th & 29th April 2025."

ACHIEVEMENTS

Served as Class Representative (CR) and Class Committee Member (CCM) for 2 years, demonstrating leadership and team coordination skills

Appointed as an Student coordinator in the symposium conducted by our Department showcasing active participation in events and Organizational abilities.

Completed Prathamic and madhyama Hindi Examinations.

LANGUAGE

Tamil

English

HOBBIES

Exploring trends in Electronics and communication.

Playing cricket and chess.

Listening music.