

KAVYAA S

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CAREER OBJECTIVE

To seek a wide knowledge about technical problems and to implement my thoughts insolving that problem and also to work in a Company to pursue a professional career.

ACADEMIA

| Course | Name of the Institution | University/ Board | Month & Year Of Passing | CGPA/ Percentage |
|--------------------------------|--|--------------------------|-------------------------|---------------------------|
| Bachelor of Engineering | K.S.Rangasamy College of Technology | Anna University, Chennai | May,2026 | 8.53% (Upto 3rd Semester) |
| HSC | JKK Nattraja Matriculation Higher Secondary School | Stateboard (Tamil Nadu) | May,2022 | 89.8% |
| SSLC | JKK Nattraja Matriculation Higher Secondary School | Stateboard (Tamil Nadu) | March,2020 | 89% |

TECHNICAL SKILLS

- Programming Languages: C ,Python,HTML,CSS
 - PCB Designing Tool: KiCAD
 - Circuit Design and Simulation Tools: Multisim
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AREAS OF INTEREST

- Embedded System
 - Internet of Things
 - Web Development
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CO-CURRICULAR ACTIVITIES

- Participated in “Innovation, Design, Entrepreneurship (IDE) Bootcamp” at National Institute of Technical Teachers Training and Research (NITTTR),Chennai organized by Ministry of Education’s Innovation Cell(MIC) and All India Council for Technical Education (AICTE)
 - Participated in the regional round of the SAP Sponsored Hackathon-“Hackfest 2024" held at Vellore Institute of Technology (VIT),Chennai
 - Participated in Skill development program on “Printed Circuit Board” organized by Institution’s Innovation Council(IIC) at K.S.Rangasamy College of Technology
 - Participated in workshop on “Electronic Product Design” organized by Creative Association for Adducing Communication Engineers(CAFACE)
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PROJECT DETAILS:

PROJECT 1: D ALGORITHM FOR CHIP DESIGN

Developed test vectors using the D algorithm to ensure gate-level accuracy by comparing expected and actual outputs. Implemented parity check bits in chip design to monitor and correct data integrity, enhancing fault tolerance and reliability

PROJECT 2: AC TO DC CONVERTER

Designed and implemented a power supply using the LM7812 voltage regulator, ensuring a stable 12V DC output under varying input voltage and load conditions. Supported the power needs of microcontrollers, sensors, RF modules, transceivers, and other communication devices

PROJECT 3:OBJECT DETECTOR USING IR TRANSMITTER

Designed and implemented an object detection system using an IR transmitter and receiver circuit. Utilized an IR LED for continuous emission of infrared light, with a photodiode and LM358 operational amplifier to detect and amplify reflected signals. Integrated a potentiometer for sensitivity adjustment and an LED for visual indication of object detection. Applications included obstacle detection in robotics, automatic door systems for human presence detection, and item counting in conveyor systems

PROJECT 4: LED VOLTMETER

Developed an LED voltmeter that measures and shows analogue voltage by utilising the UA741 operational amplifier. Built a system for signal processing and amplification to drive LEDs with varying voltage ranges. Constructed a voltage scale to provide an understandable analogue display that improves user experience by providing a clear visual representation of input voltage levels. Used to monitor voltage in real time in power supply and electrical circuits

MEMBERSHIPS

- Institute of Electrical and Electronics Engineers
- American Society of Mechanical Engineers

PERSONAL PROFILE

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|------------------------|---|------------------------------------|
| FATHER'S NAME | : | MR. SENTHILKUMAR R |
| MOTHER'S NAME | : | MRS. KAVITHA S |
| D.O.B & AGE | : | 11.01.2005 & 19 |
| HOBBY | : | LISTENING MUSIC ,CRAFTING BY HANDS |
| LANGUAGES KNOWN | : | TAMIL AND ENGLISH |

DATE :
PLACE :

YOURS OBEDIENTLY
(KAVYAA S)