





Karthikeyan M

ELECTRONICS AND COMMUNICATION ENGINEER

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PROFESSIONAL PROFILE

An Assiduous and Fervent Engineer with a strong academic records, and hands on experience in both software and hardware, looking for a responsible role in a reputable organization where I can learn new skills, expand my knowledge, and leverage my learnings. Excited to bring a passion for innovation and creative problem-solving to future.

EDUCATION

Bachelor of Engineering-Electronics and communication engineering
Meenakshi sundararajan engineering college Sep 2020 - Present
CGPA-9.02

HSLC

N.S.N MAT HR SEC SCHOOL 2018 - 2020

87.16%

SSLC

N.S.N MAT HR SEC SCHOOL 2017 - 2018

96.18%

INTERSHIPS EXPERIENCE

DLK CAREER DEVELOPMENT CENTRE

- Worked as an intern for a period of 2 weeks in DLK CAREER DEVELOPMENT CENTRE Chennai.
- Learnt the basic concepts related to IOT and its applications.
- Also learnt how to do projects with Arduino in Tinker cad software.
- Gained exposure to do IOT projects in future.

EMCOG SOLUTIONS

- Worked as an intern for a period of 2 weeks in EMCOG SOLUTIONS
- Learnt about the basics of embedded systems, microcontrollers, microprocessors, embedded C and also some basic projects related to embedded systems.
- Learnt about how to do PCB design in EASY EDA software.
- Did some simulations and mini projects in Proteus and MPLAB X IDE software

EMPOWER GUIDING CENTER

- Worked as an intern for a period of 2 weeks in EMPOWER GUIDING CENTER.
- Learnt about the basics concepts of java, swing and AWT components
- Did an registration form, library management system form as a projects based on the AWT components.

PROJECTS

ARDUINO BASED RADAR SYSTEM

ROLE: PROJECT LEADER-CIRCUIT DESIGNER, LEAD PROGRAMMER

This system mainly used for detecting the objects which are in the radar surroundings, mainly used for surveillance purpose

IOT BASED INDUSTRIAL PROTECTION SYSTEM

ROLE: PROJECT LEADER-CIRCUIT DESIGNER, LEAD PROGRAMMER

This system is used for protecting the industries from any harmful, poisonous gases, high temperature and also from unknown persons who is entering into the industries.

COMPACT AIR PURIFIER

ROLE: CIRCUIT DESIGNER

Developed a compact air purifier for indoor spaces, designed to effectively and affordably purify air from impurities and pollutants.

SKILLS

- C programming
- Python
- HTML,CSS
- Embedded C
- PCB Designing, Soldering.
- SQL

TOOLS

- EASY EDA
- Proteus
- MPLAB X IDE
- Arduino IDE
- Tinker Cad
- Canva

EARLY DETECTION OF PROSTATE CANCER

ROLE: RESEARCH AND DEVELOPMENT

- It is a sensor-based bio-medical detection device that detects tumours and cancer in the prostate gland by means of high-intensity focused ultrasound and low-intensity pulsed ultrasound transmission and reception.
- Currently, under development with a hardware prototype that is 50% complete, with further funding and research, this project will be a revolutionary innovation in terms of the diagnostic field

PAPER PRESENTATION

AUGMENTED REALITY

AR is a technology of combining real world images with computer generated information. I briefly explained the working mechanism, potential application in every fields and also the future of AR.

E SKIN

E skin refers to flexible, stretchable and self-healing electronics that are able to mimic functionalities of human or animal skin. I briefly explained the fabrications, features, working and the SWOT analysis of the E skin.

IOT in Agriculture

Presented this topic in Sairam engineering college and gave a brief explanation on the working, applications and future technologies.

FRACTAL ROBOTS

A robot which can able to change its geometrical shape and structure with respect to the specific situations. I briefly explained the algorithms, mechanism, working , and SWOT analysis of Fractal robots.

ROVER

An autonomous robot which is mainly used to deliver commodities safely and efficiently during times of contagious pandemics in the hospitals and also can be used to assists the elderly people with their daily tasks such as shopping and personal care.

ACHIEVEMENTS

- Qualified for Grand Finale of IEEE YESIST 12, International Project Presentation to be held in Cairo, Egypt on 2nd September 2023 on the project of Early Detection of Prostate cancer
- Participated in National level Tech fest AIRO 2k21 organized by Sairam engineering college and secured second prize in paper presentation on the topic of IOT in agriculture
- Secured first prize in circuit designing quiz held at Saveetha Engineering College.
- Secured first prize in photography competition held at Sairam Engineering College.

INDUSTRIAL VISIT

NLC INDIA LIMITED

- Went for an Industrial visit to Neyveli Lignite Corporation.
- Learned about the principles and working process of the power plant.
- Observed the different stages of coal mining and power generation, and gained insights into the safety protocols and environmental measures employed by the company.

LANGUAGES

- Tamil
- English
- Hindi

HOBBIES

- Playing sports(Cricket, Kho Kho, Badminton)
- Drawing
- Photography

DECLARATION

I hereby declare that all the information given above is true to the best of my knowledge and belief

LEADERSHIP SKILLS

- Serving as a Class Representative for past 3 years
- Served as project head in 2 projects
- Served as an event coordinator in Technical symposium event.

SOFT SKILLS

- Communication skills
- Positive Work Attitude
- Time management
- Presentation skills
- Interpersonal skills
- Process mapping skills
- Creativity