ANNIE PRASANNA M

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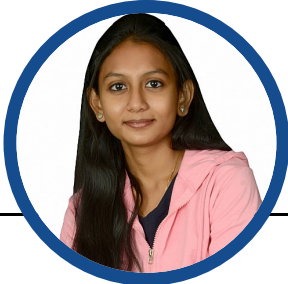
EDUCATION

2024 - present	**University of Arkansas, Fayetteville** MS Computer Engineering
2019 - 2023	**Sri Ramakrishna Engineering College** BE Electronics and Communication Engineering with 8.55 CGPA.
2017 - 2019	**Avila Convent Mat. Hr. Sec. School** High School with 84.3%.

EXPERIENCE

06/2023 - 06/2024	**Soliton Technologies Pvt Limited** Project Engineer As a dedicated Project Engineer, I possess a strong sense of ownership and prioritizing the delivery of high-quality outcomes. Focused mainly on MAVIS, Soliton's proprietary test automation framework for medical devices. My role included maintaining the framework, developing features for custom solutions. I also contributed in a desktop application with a sophisticated GUI in C# and WPF. It seamlessly integrated various test automation tools in C#, LabVIEW, and Python.
07/2022 - 05/2023	**Soliton Technologies Pvt Limited** Intern An Intensive training program focused on mastering LabVIEW and TestStand, becoming proficient in programming and test automation. Alongside technical skills, honed leadership qualities and embraced teamwork, fostering a sense of ownership. Moreover, it cultivated a broader perspective, fostering strategic thinking and a commitment to lifelong learning, reinforcing the importance of staying updated with evolving technologies and industry trends.
09/2021 - 10/2021	**National Institute of Technology, Trichy** Project Trainee Research in developing new antenna designs that increase efficiency is on trend. Designed an antenna by incorporating the latest technology of adding SIW and deep well cavity which significantly increased the antenna's capability. The antenna design was stimulated using Ansys HFSS software and later the antenna was fabricated successfully.
09/2021 - 10/2021	**Pricol Engineering Industries Limited** Intern I worked with the Research and Development team on their new project of optimizing an advanced pressure sensor according to the needs of the customer. This project improved the efficiency in the navigation of modern aircraft systems, in the field of defense.

SOFTWARE SKILLS

- C
- C++
- C#
- WPF
- LabVIEW
- Ansys HFSS
- html, css, javascript

PROJECTS

My Portfolio Website   **July 2022**

Innovated and developed my own portfolio website which is a detailed information about my professional journey.

Languages & Tools Used: HTML, CSS, JavaScript.

Efficient Power Generation to Automate Street Lights Based on Traffic Density   **March 2021**

(Project Mentor: Mrs. Kalaimathi. B, Assistant Professor, Dept of ECE)

Development of an IOT-based efficient power generation using renewable sources to automate street lights according to traffic density. Our main objective was to minimize energy consumption by making the street lights glow at maximum brightness only on detecting presence.

Languages & Tools Used: Embedded C, Arduino IDE, Google Firebase, Multiple sensors.

Raspberry PI-based Intelligent Car Parking System   **October 2021**

(Project Mentor: Kalaimathi. B, Assistant Professor, Dept of ECE)

Development of an intelligent car parking system that helps drivers book parking spots through a Cloud-based IoT system. The parking spot gets allocated through the Open CV recognition method. The QR code algorithm updates the information regarding the availability of parking spots in a particular area on a website.

Languages & Tools Used: Python, Raspberry Pi, IOT, Multiple sensors.

Design and analysis of antenna for 5G application   **March 2022**

(Project Mentor: Saranya. S, Assistant Professor, Dept of ECE)

Development of an efficient antenna design for 5G applications using ANSYS HFSS tool. The size of the unit cells of the antenna is calculated, simulated, and optimized, using the HFSS software.

Languages & Tools Used: ANSYS HFSS.

Microchip Analyzer and Validation Suite   **March 2023**

(Project Mentor: Saranya. S, Assistant Professor, Dept of ECE)

Developed Scalable Microchip Analyzer and Validation (MAV) suite which analyzes and validates the chip by performing functionality verification and image processing using LabVIEW and YOLO v7 algorithm.

Languages & Tools Used: LabVIEW, Python

PAPER PUBLICATIONS

Efficient Power Generation to Automate Street Lights Based on Traffic Density
- Publisher: Institute of Electrical and Electronics Engineers (IEEE)
- Published at: 5th International Conference on Computing Methodologies and Communication (ICCMC 2021)

Raspberry Pi Based Intelligent Car Parking System
- Publisher: Institute of Electrical and Electronics Engineers (IEEE)
- Published at: First International Conference on SmartTechnologies, Communication, and Robotics 2021.

CERTIFICATIONS AND KEY COURSES

- **Honours Diploma in Computer Application** from CSC (Computer Software College).
- **Business English Certificate** Examination (Preliminary) by Cambridge University.
- Online Internship Training on **"Embedded & IOT Programming"** conducted by Tessolve.
- Internship Training on **Embedded System** in Crystal Clear Technology and Innovation, Coimbatore.
- **"Introduction to Internet of Things"** course through **NPTEL** online certification.
- Completed **"Introduction to Programming with MATLAB"**, certified course by Vanderbilt University through Coursera.

POSTIONS OF RESPONSIBILITY

- Served the school pupil leader council as the Deputy Fine Arts Minister in Avila Convent Matriculation Higher Secondary School during the year 2017-2018.

- Member of Rotaract Club of Kovai Knights under community service.

I solemnly declare that all the above information is correct and true to the best of my knowledge and belief.
Annie Prasanna M