

VIDYA MAHENDRAKAR

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Bengaluru

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CORE COMPETANCY

- Understanding the concepts of Microcontroller 8051,ARM,RISC,CISC,PIC and MIPS.
- knowledge on analog circuit design for various application with worst case analysis ,system stability anyalsis,
- Good understanding and interest in Digital electronics,Circuit Design,Analog Signal Processing,Digital Signal Processing.
- Comprehensive understanding of Complementary Metal-Oxide-Semiconductor (CMOS) theory, encompassing transistor-level operation, logic design principles, and fabrication processes for integrated circuits.
- Skilled in using engineering software such as Matlab,Multisim,Simulink,,keil,Xilinx,LT Spice,Solid Edge,Cadence tool and PLC Programming code
- Assisted in designing and testing electrical circuits and systems ,and having knowledge in using Oscilloscopes
- Experience in preparing detailed technical reports ,diagrams and documentation for engineering projects
- Languages: Embedded C, Python, Verilog programming ,Assembly Language.
- High learning competency, self-motivated and ability to work in diverse areas in a flexible and dynamic environment.

EDUCATION

BE IN ELECTRONICS AND COMMUNICATION

JSS ACADEMY OF TECHINAL EDUCATION BENGALURU,VTU UNIVERSITY

2022 - present 6th sem

CGPA - 8.772/10

PUC

JAWAHAR NAVODAYA VIDYALAYA

2020 - 2022.

PERCENTAGE - 85.16/100

10th

JEEVAN PRAKASH HIGH SCHOOL GULBARGA

2019 - 2020.

PERCENTAGE - 86.24/100

SKILLS

Digital Electronics
RC Circuit
LT Spice
Python
Problem Solving

Analog Circuits
Network Analysis
Keil uVision,
VLSI Basics
Quick Learner

CMOS Fundamentals
Matlab Simulink
C , Embedded C , Embedded Systems
Verilog HDL
Project Mangement

CERTIFICATION

Digital Electronics and logic Design Circuits | Udemy, June 2024

MATLAB Certified | MATLAB coding Jan 2024

C Programming Basic | LINKEDIN June 2024

Python | OpenEDG Python Institute Jul 2023

CMOS Digital VLSI Design | NPTEL Jan 2025

PCB Design | Udemy Dec 2024

PROJECTS

Secure File Sharing System Using Cryptography [2024]

Developed a secure file sharing application where security of files in the cloud is maintained using One-Time Pad, RSA, AES, and hybrid cryptography Algorithms.

The project guaranteed confidentiality, integrity as well as authenticity of shared files. Performed Security testing using Black box and Avalanche effect techniques.

Environmental Monitoring System Using Arduino and DHT11 Sensor

Interfaced a DHT11 sensor with Arduino to measure and display real-time temperature and humidity readings. Developed code to acquire data and output it to the serial monitor for monitoring environmental conditions.

INTERNSHIPS

Data Analytics Intern Vodafone Idea Foundation & Connecting Dreams Foundation [October 2024 – November 2024]

Completed AICTE and VOIS for Tech Program's virtual internship on Data Analytics using AI-LLMs. Gained practical knowledge and skills in data analytics through industry-specific projects. Internship facilitated by Connecting Dreams Foundation