

# VINOD KUMAR M

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## PROFESSIONAL SUMMARY

Highly motivated Electronics and Communication Engineer with a strong foundation in circuit design, communication protocols, and a passion for exploring emerging technologies like VLSI design, Internet of Things (IoT) and embedded systems. Possesses proficiency in programming languages and seeks a challenging role to leverage technical skills and contribute to the development of innovative solutions.

## AREAS OF EXPERTISE

- VLSI chip design and layout [Beginner]
  - Cadence, Verilog
- IoT and Embedded Systems [Intermediate]
  - Embedded C, Arduino IDE, Keil Micro Vision
- Signal Processing [Intermediate]
  - MATLAB
- Programming languages [Intermediate]
  - C/C++ Programming, Python, Java
- MS – Office (Excel, Word & PowerPoint)

## PROJECTS

### Password Based Door Lock System using 8051 Microcontroller

This project main objective of this project is to replace the traditional door lock system where we use mechanical lock and key mechanism by the password-based door lock system because it as .Low power consumption, To give user more secure cost-effective way of door locking system, Increase the security level to prevent an unauthorized unlocking of the door lock the door by using password.

### MP3 Player using Arduino and DFplayer

To Demonstrate the use of this module with Arduino, using the push buttons to instruct the Arduino to send serial commands to the module and control mp3. We will use three buttons to achieve this. The first button will serve as the “previous” button that will enable us to play previous song. The second button will be to “play/pause” the file currently being played and the third button will be used to play the next file.

### Optimal Irrigation System

Developed a sensor-based automated irrigation system using microcontrollers, IoT, and a GSM module to monitor soil moisture and climate data. Enabled real-time water optimization and remote alerts via SMS, reducing water wastage and improving crop yield.

## EDUCATION

<b>B.E in ELECTRONIC AND COMMUNICATION ENGINEERING</b>	<b>[2021-2025]</b>
Vemana Institute of Technology, Bangalore [CGPA: 7.5(up to 7 <sup>th</sup> Sem)]	
<b>PUC [ Department of Pre – University Education]</b>	<b>[2019-2021]</b>
Kle Society PU college [79%]	
<b>SSLC [Indian Certificate of Secondary Education]</b>	<b>[2018-2019]</b>
California Public School [73%]	

## INTERNSHIP AND CERTIFICATION

- Indian Institute of Embedded System (Subject: Embedded Systems)
- Aspire Technologies (Subject: VLSI Design Engineer)
- Prodigy InfoTech (Subject: Data Science)

### CERTIFICATIONS:

- Embedded Systems
- Machine Learning with Python
- Infosys Springboard AI Foundation Certification.
- Data Science

**LANGUAGES:** English, Kannada