


## Keerthivasan Govindaraju

 Tamil Nadu, India

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 [GitHub](#) | [LinkedIn](#)

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## Education

### **B.Tech – Electronics and Communication Engineering** **Vellore Institute of Technology, Chennai**

- **Grade:** CGPA: 9.35
  - **Activities & Societies:** Currently focused on academics and skill development; planning to join relevant technical clubs in upcoming semesters
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## Skills

### **Hardware & Embedded:**

- Verilog HDL, Digital Logic Design, Arduino & Sensors
- PCB Soldering, Microcontrollers, Embedded Systems

### **Software & Tools:**

- VS Code, GitHub, MATLAB Simulations
- Circuit Debugging, IoT Systems

### **Programming Languages:**

- Beginner: Java, Python
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## Projects

### **1. Emergency Braking System for Obstacle Detection**

- Motor rotates continuously and stops when an object is detected using ultrasonic sensor
- LED and buzzer alert when the object is near; resumes when clear
- Arduino-based implementation

### **2. Blind Man Glasses (Obstacle Detection Wearable)**

- Glasses-mounted ultrasonic sensor with buzzer and vibration motor
- Alerts user about nearby obstacles in real-time
- Low-cost assistive tech for the visually impaired

### **3. Smart Radar-Based Obstacle Detector**

- Servo-based sweeping sensor with ultrasonic range detection
- Buzzer and LED alert when an object is too close
- Processing IDE visualization for radar scan

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#### **Additional Information**

- Enthusiastic about real-world embedded systems and semiconductor projects
- Actively building GitHub repositories with well-documented project files
- Quick learner with a focus on hands-on implementation and research