**Keerthivasan Govindaraju**

📍 Tamil Nadu, India

📞 +91 8610084011 | ✉️ keerthivasangc@gmail.com

🔗 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