

ENVISION GLASSES

PROBLEM STATEMENT

Envision Glasses, a dazzling glimpse into a future where the visually impaired see through audio cues, still face hurdles. High price tags lock out many, limiting access to this life-changing tool. The 1-meter range feels like a leash, curbing independent navigation. And while the audio narration paints a picture, its robotic tones and short leash leave room for improvement. Imagine the freedom of wireless exploration, untangled from wires, guided by a natural-sounding voice that paints richer landscapes. Envision Glasses hold immense potential, but further development is key to unlock their full power and usher in a truly inclusive future.

TEAM MEMBERS



- Shashikala N, ME**
- Shashikala NC, ME**
- Harshitha, ECE**
- Nandeesh Kumar, ECE**
- Shivakumar, Civil**

SOLUTION

The prototype utilizes an ordinary glass frame instead of titanium, integrating an ultrasonic sensor to detect nearby obstacles. Coupled with an Arduino program, the setup ensures affordability, lightweight design, and user-friendliness. The ultrasonic sensor, paired with the Arduino board, detects obstacles within a 1-meter range and signals the user via a mounted buzzer on the cost-effective vision glass. Users receive audio cues while moving, enabling early awareness of obstacles and facilitating timely actions.

