

G H RAISONI COLLEGE OF ENGINEERING & MANAGEMENT, PUNE

(An Autonomous Institute Affiliated To Savitribai Phule University)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

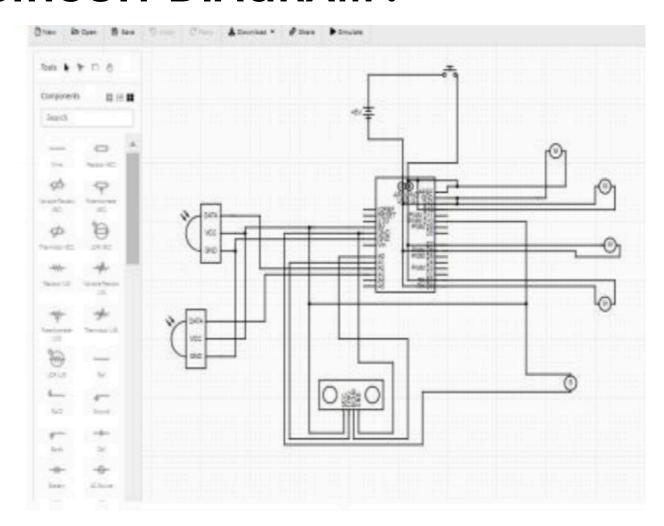
MINI PROJECT

"ARDUINO BASED HUMAN FOLLOWING ROBOT"

PROBLEM STATEMENT

The creation of a human following robot aims to fulfill the demand for self-governing robotic systems that may assist people with limited mobility, improve security and monitoring capacities.

CIRCUIT DIAGRAM:



SYSTEM APPLICATIONS

- Retail and Customer Service: These robots can follow shoppers, help them locate products, and answer questions about pricing or availability.
- Entertainment and Events: These robots can interact with attendees,
 - perform tasks or demonstrations, and create memorable experiences.
- Tourism and Hospitality:
 Human-following robots can serve as guides and assistants for visitors.

ADVANTAGES

- Affordability
- Versatility
- Low Power Consumption

Components Used:-





Ultrasonic sensor

Aurdiuno





Infrared sensor

DC motor



motor driver shield

DISADVANTAGES

- Limited Processing Power
- Hardware Limitations
- Lack of Professional Support



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