

Fig 1. Wiring Diagram of paperbot

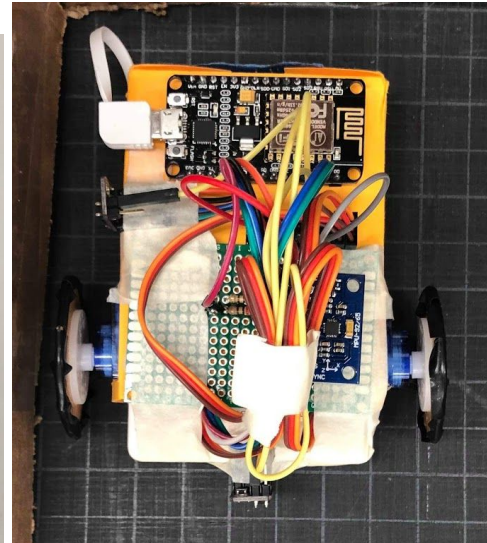


Fig 2. The actual appearance of paperbot

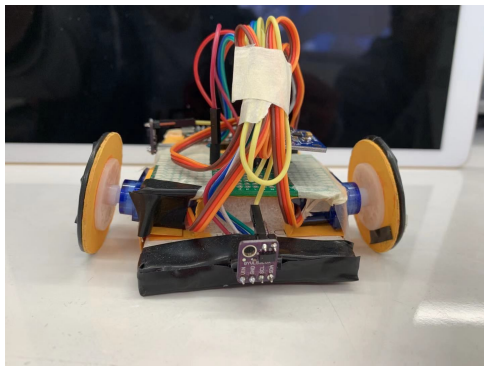


Fig 3. The front Laser Range Sensor

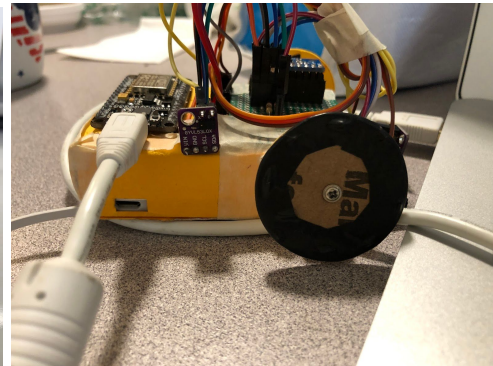


Fig 4. The right Laser Range Sensor



Fig 5. The IMU Magnetometer

Simulations

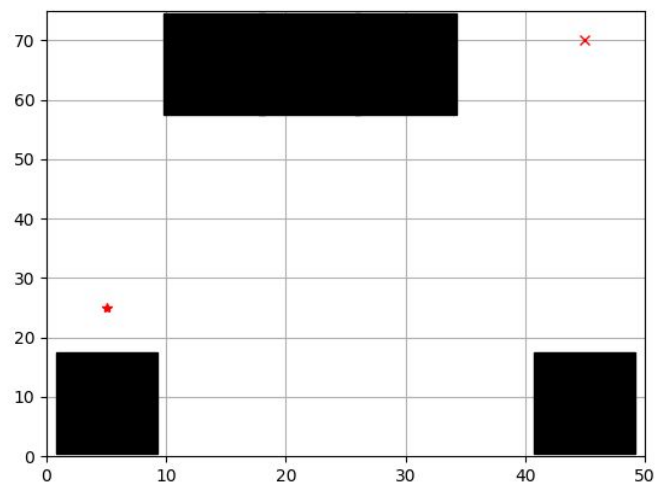
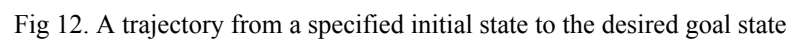
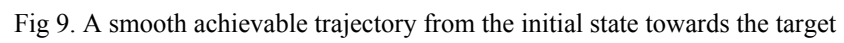


Fig 8. Visualization of environment with obstacles, initial and goal states



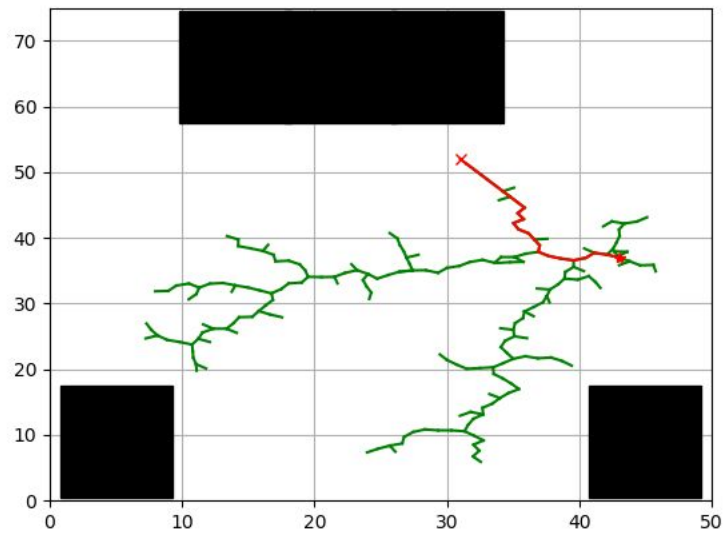


Fig 13. A robust trajectories to the goal state from arbitrary initial states

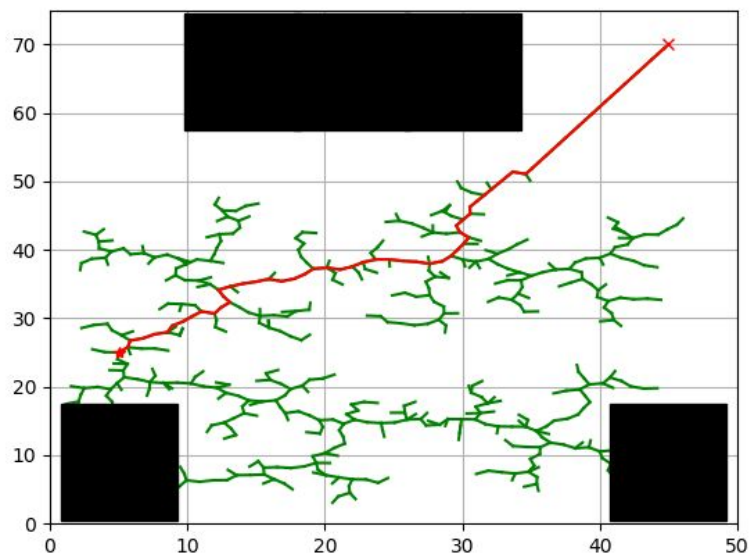


Fig 13. Improved version using RRT*