





VALE is an autonomous robot that will map out a floor of a building using SLAM and Lidar. The user will then be able to select a room to have VALE guide them there.





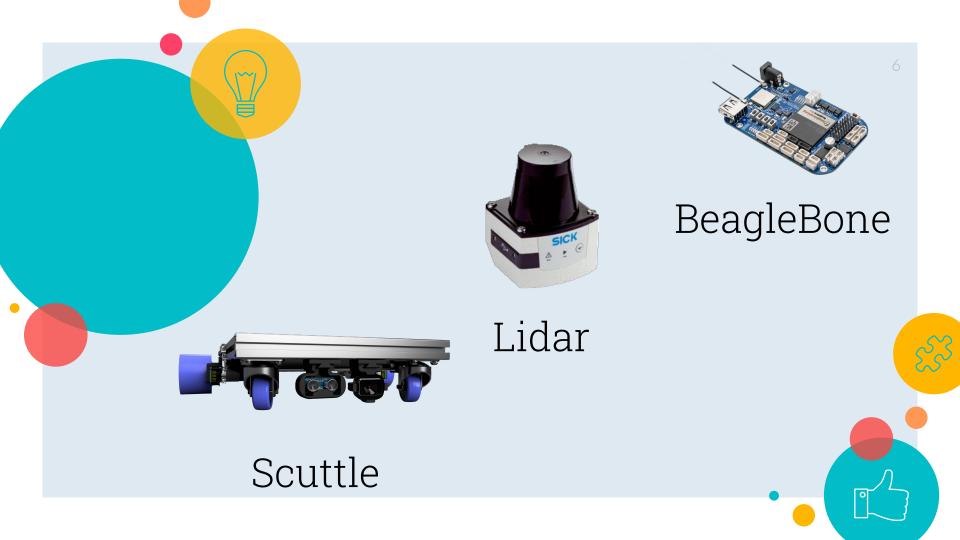
 Map out area through the use of a SLAM algorithm

Goals

- 2. Accept user input of destination
- 3. Localize coordinates
- 4. Safely move to that location while avoiding obstacles with user
- 5. Update 'landmarks' while navigating.





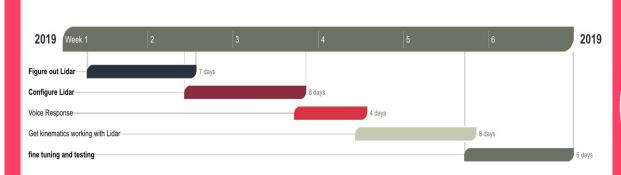




Metrics to measure performance

- 1. Did VALE reach the target?
- 2. Did VALE navigate safely?
- 3. Was the situational awareness sufficient for safe operation? Any close calls?
- 4. Was the speed optimal for letting the user follow the robot?









Thank You!

Any Questions?