



Initial presentation

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Where innovation starts



Goal

-Corridor:

-The robot has to take the first turn autonomously

-Maze:

-The robot has to solve the maze autonomously



Requirements

- The maze has to be solved as fast as possible**
- The robot should avoid collisions with the walls**
- The robot should be able to recognize doors**
- The robot should not stand idle for too long**



Components

-Actuators

- holonomic base with omni wheels**

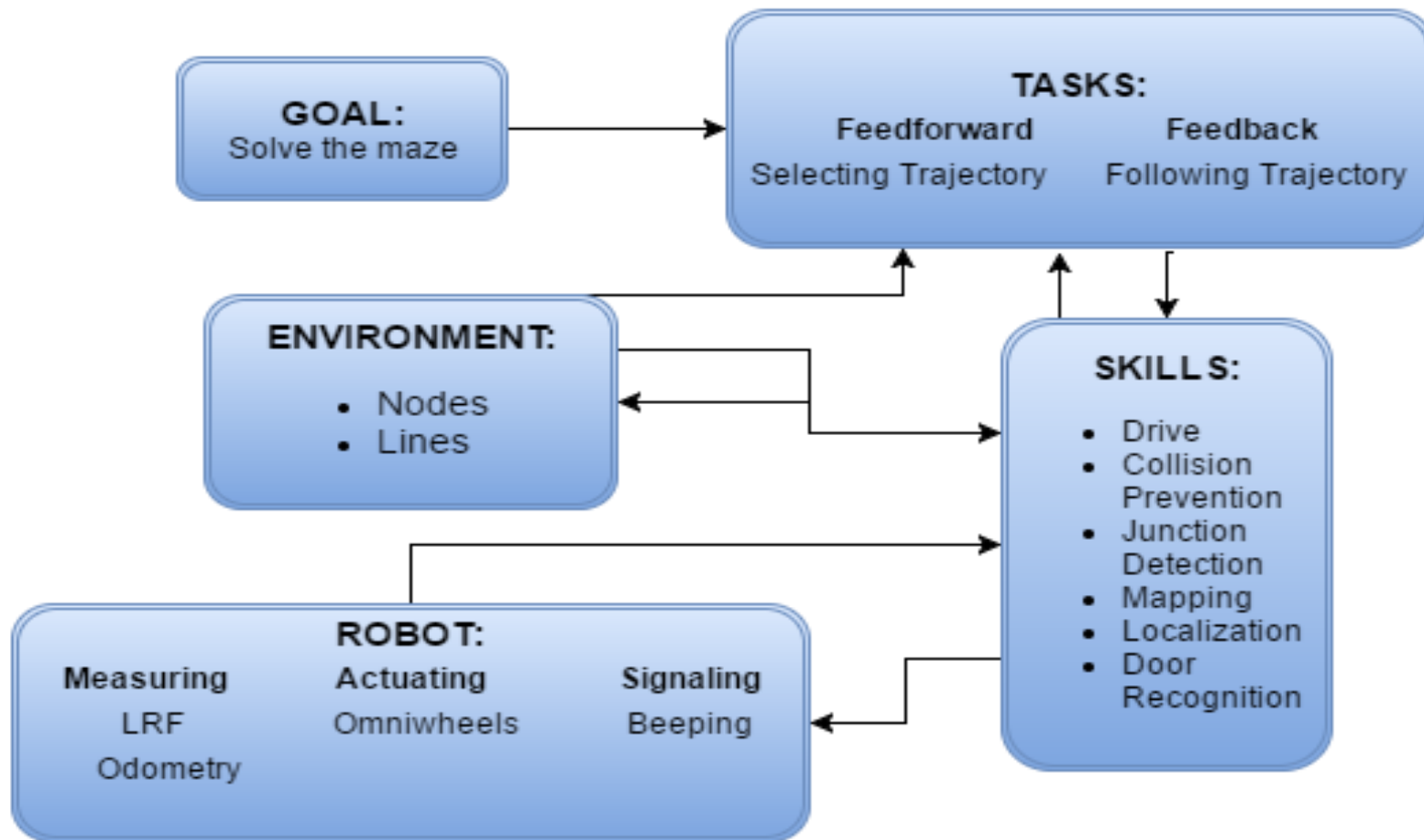
-Sensors

- Laser Range Finder (LRF)**
- Wheel encoders(odometry)**

-Computer

- intel i7**
- ubuntu 14.04**

Composition pattern





Composition pattern

-Feedforward
– trémaux algorithm

-Feedback
— Potential Field