

Bottom-Up FSA implementation - Michele Proverbio

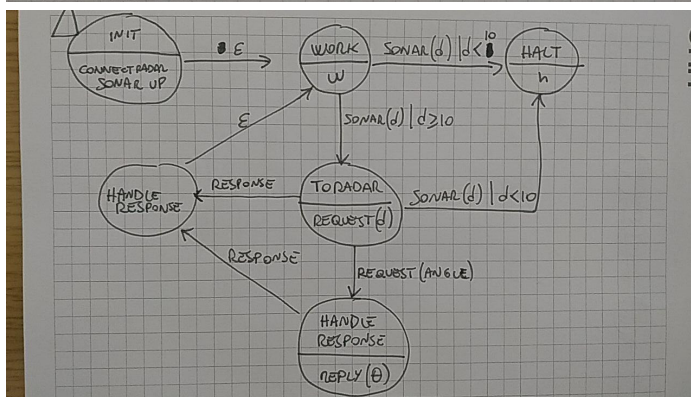
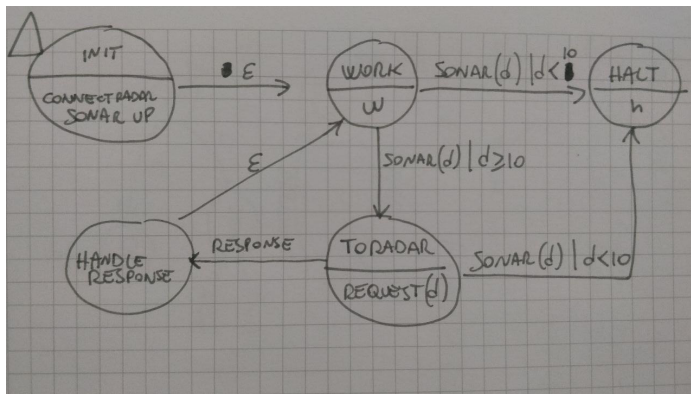
Requirements

Build a bottom-up implementation of a FSA describing the behaviour of a robot with those specifics:

- the robot moves forward until an obstacle is detected
- the robot must send sonar data to a radar with a request-response pattern

Expand the previous requirements: the radar might request an angle to the robot before responding to the request sending the sonar data.

Requirement analysis



Problem analysis

The FSA is implemented through a transition matrix and an event loop that checks if a transition gets applied. States actions are implemented by procedures that get called by the event loop once a transition gets activated. The current state is stored in a variable.

