**Embedded Motion Control:**
Final Design

**Group 3:**
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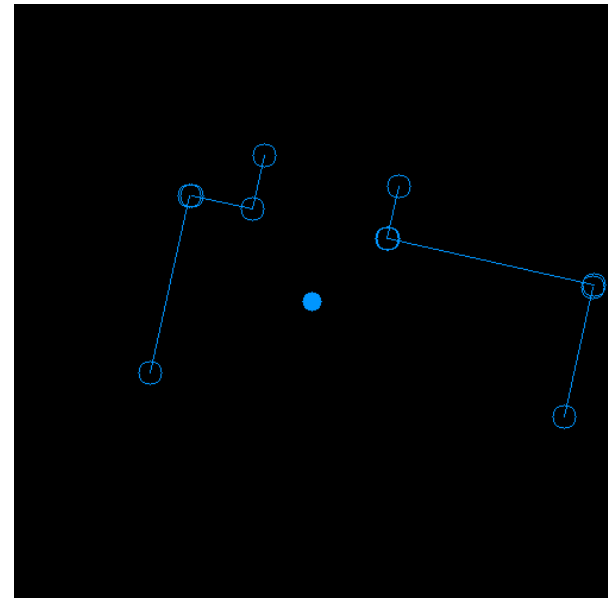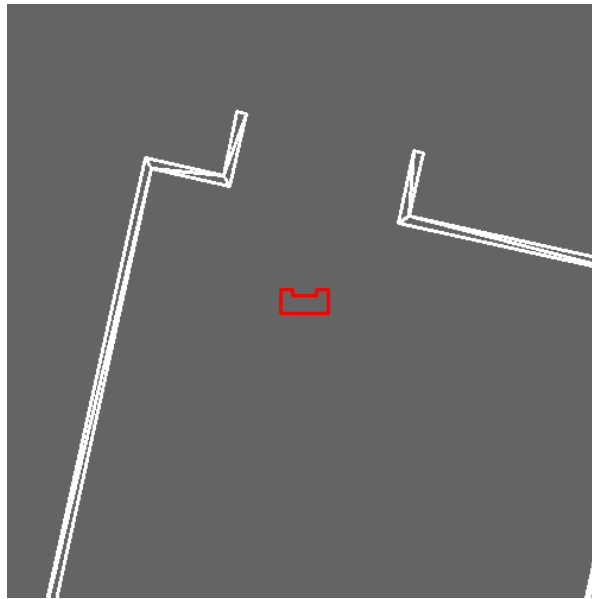
**Coordinator:**
dr.ir. M.J.G. van de Molengraft

**Tutor:**
RUVU

# Architecture

## Making the world model:

1.  Split and merge

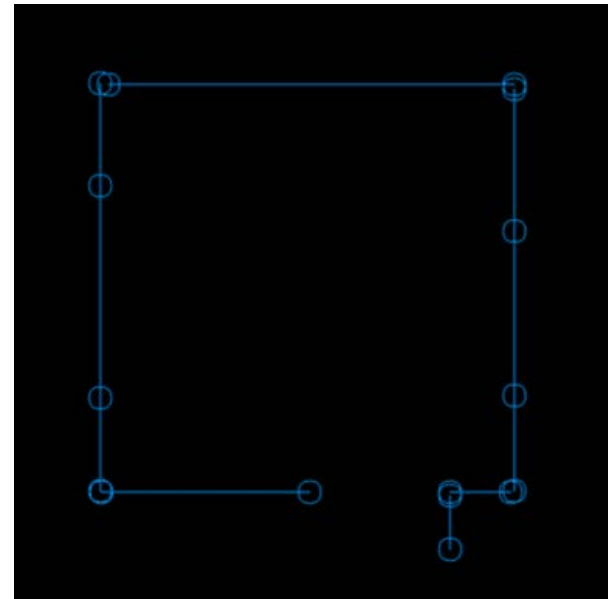# Architecture

## Making the world model:

1. Split and merge
2. Fit room

# Architecture

## Making the world model:

1. Split and merge
2. Fit room
3. Make graph

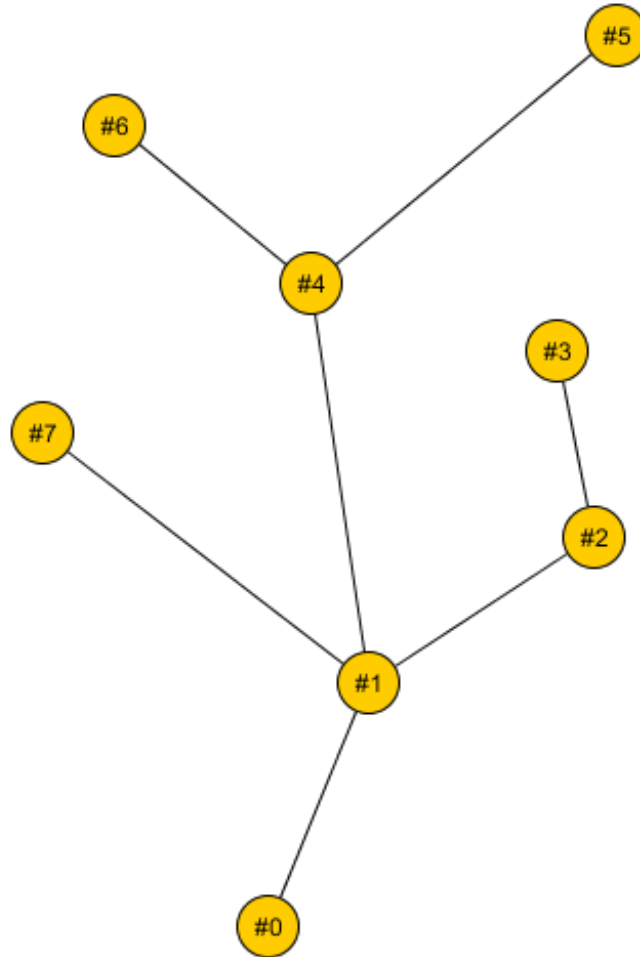# Architecture

**Making the world model:**

1. Split and merge
2. Fit room
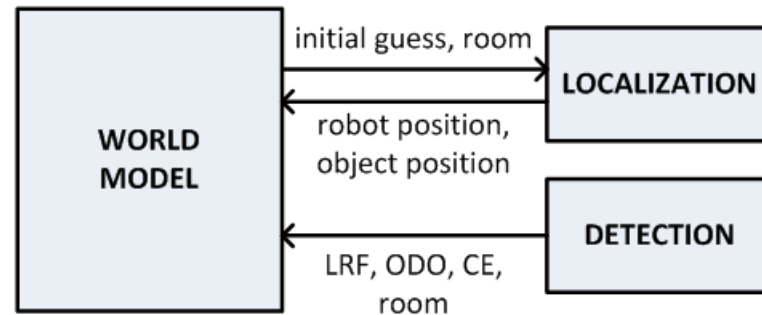3. Make graph
4. Save graph



WORLD
MODEL

# Architecture

## Localization:

- Line filtering
- Localization w.r.t. room

## Detection:

- Using data from PICO
- Split and merge
- Fit room

# Architecture

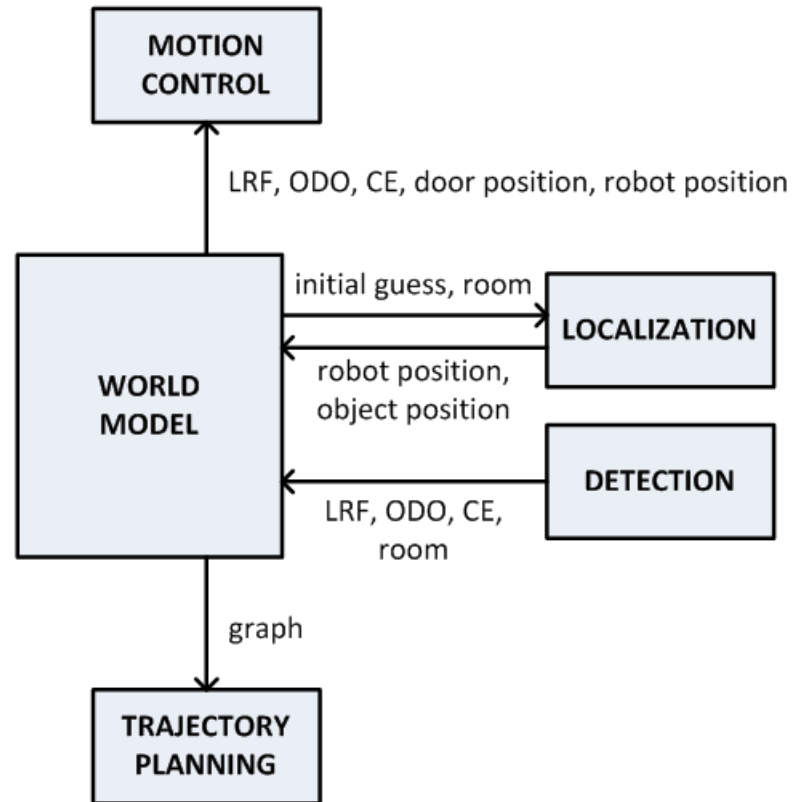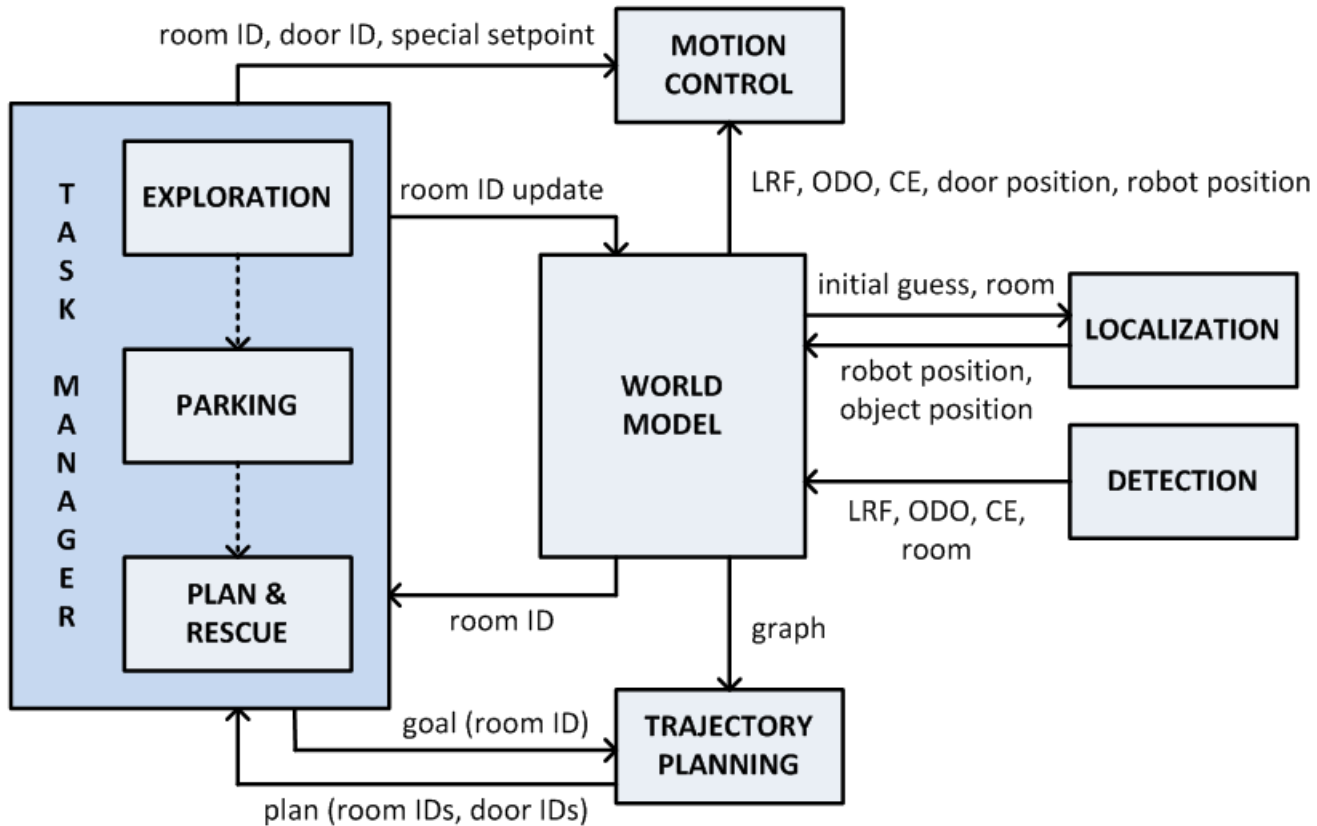**Motion control:**

- Force field
- Proportional controller

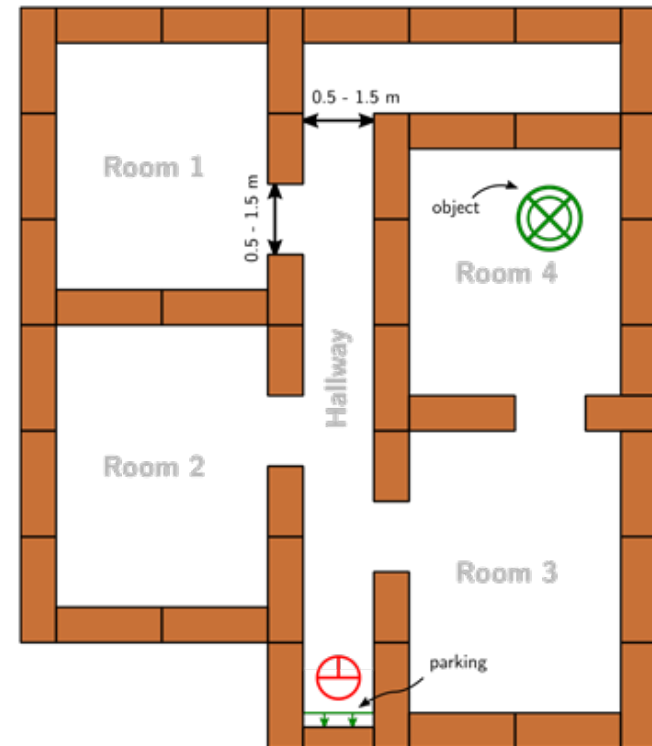**Trajectory planning:**

- Planning path using graph

# Architecture

# What's next?

**To-do list for the upcoming week:**

- Implementing high-level hint
- Task manager
- Find object

# Any questions?