Embedded Motion Control:
Final Design

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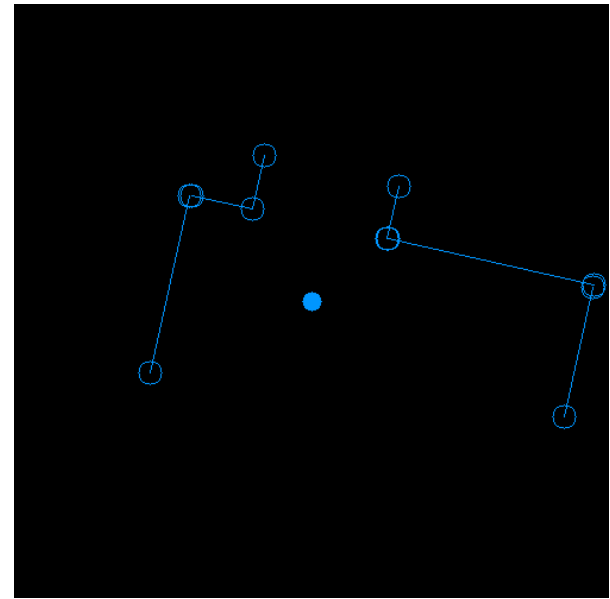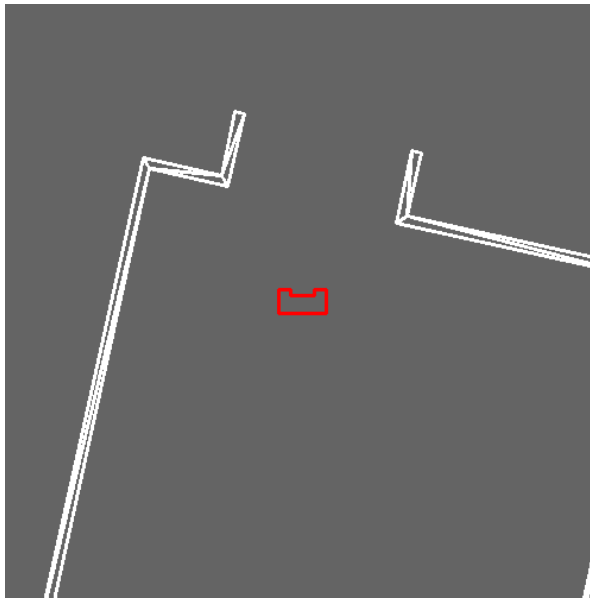
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Tutor:
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Architecture

Making the world model:

1. Split and merge

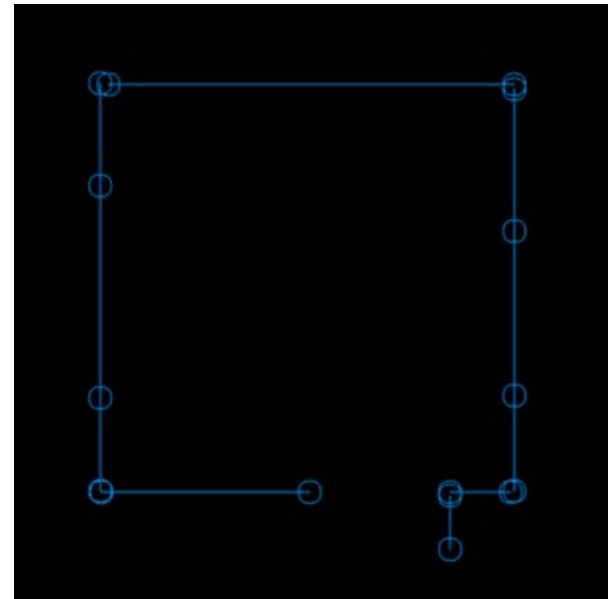# Architecture

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
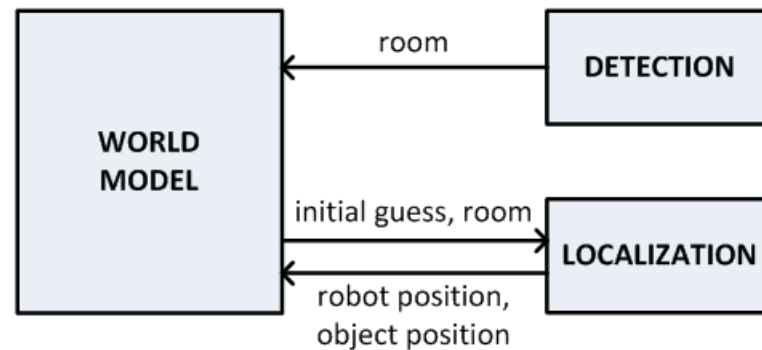3. Make graph
4. Save graph

WORLD
MODEL

Architecture

Localization:

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

Detection:

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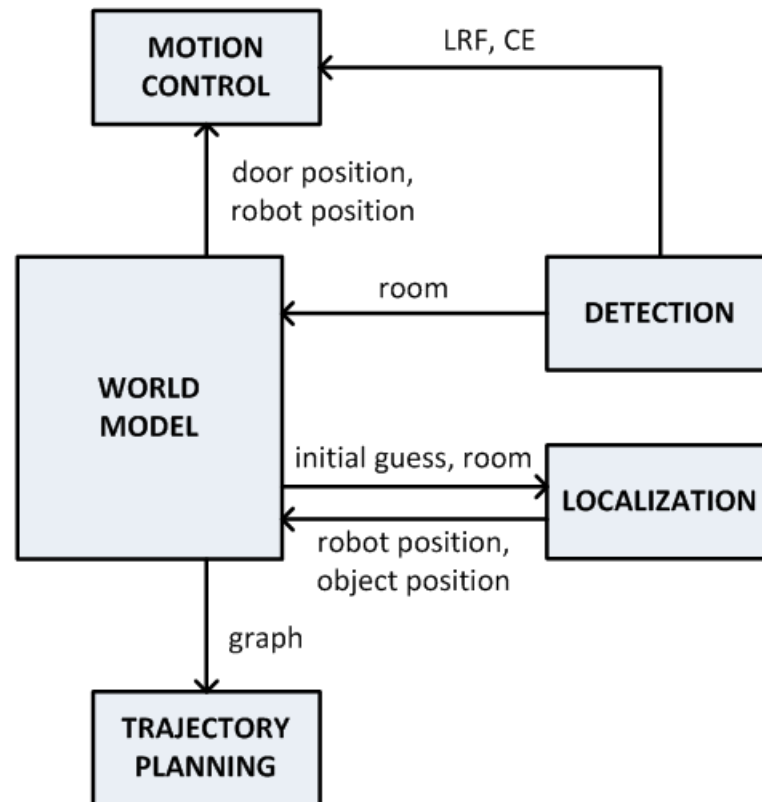- Split and merge
- Fit room

Architecture

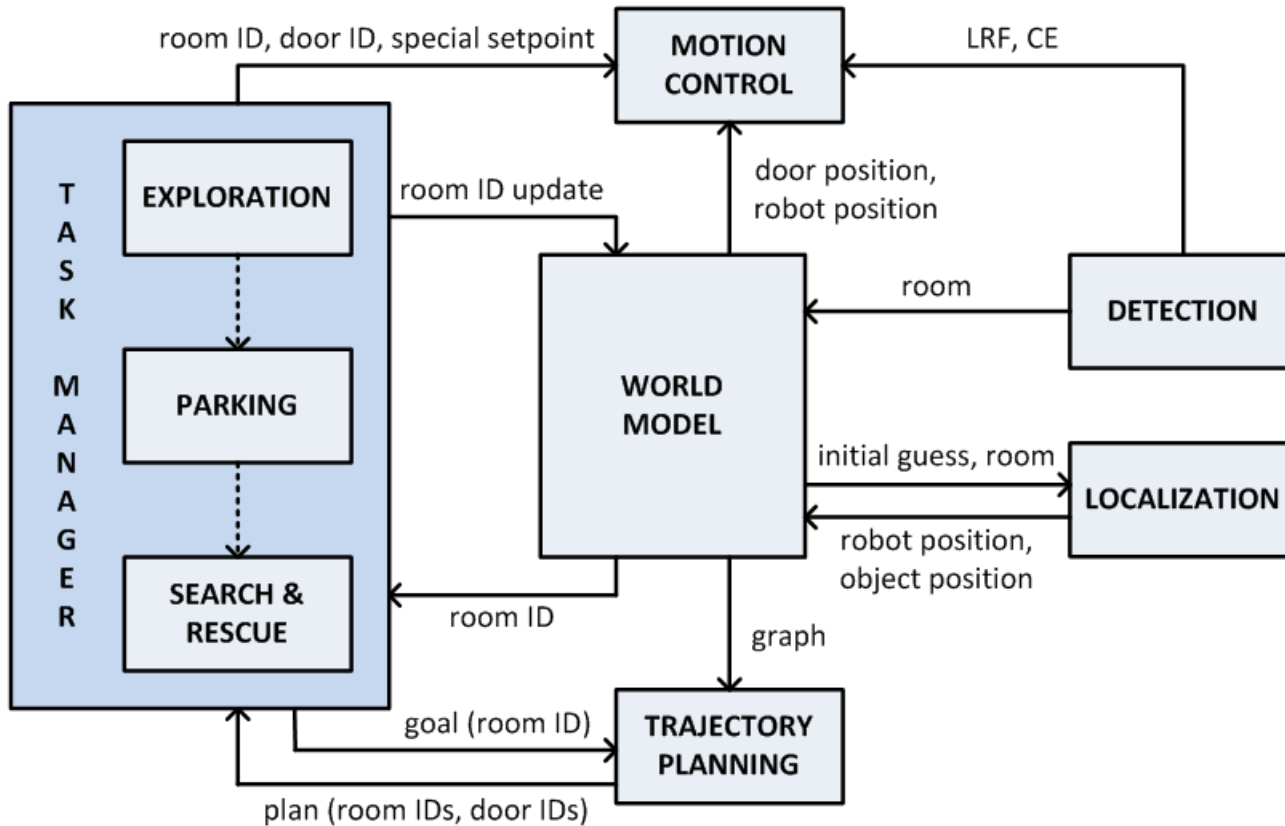**Motion control:**

- Force field
- Proportional controller

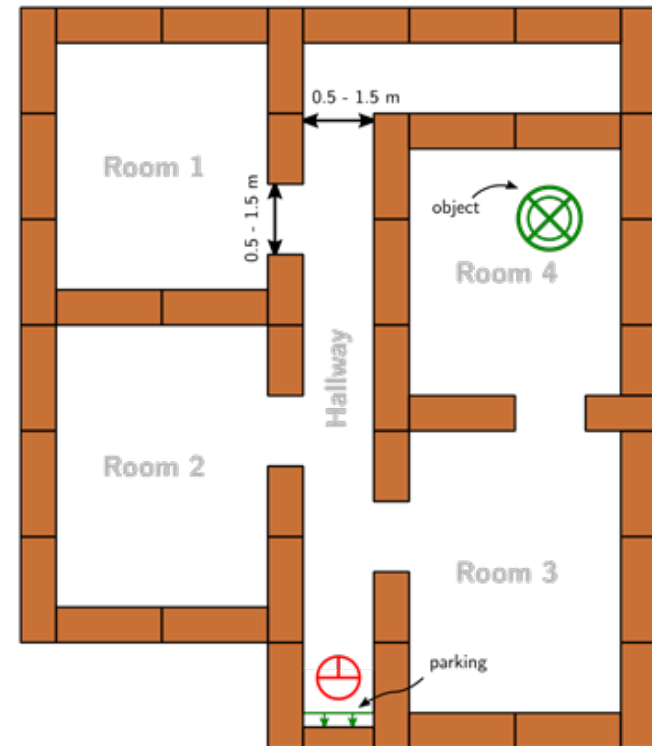**Trajectory planning:**

- 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?