

# SOFTWARE DEVELOPMENT FOR AUTONOMOUS MOBILE ROBOTS

## FINAL PRESENTATION

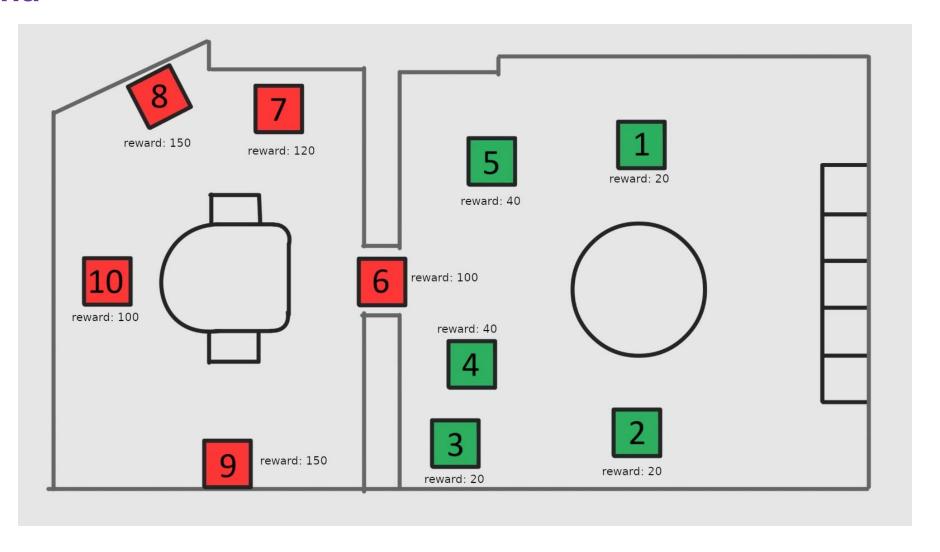
Jonathan Wekesser (35483)

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TASK

## Task

# **Arena**

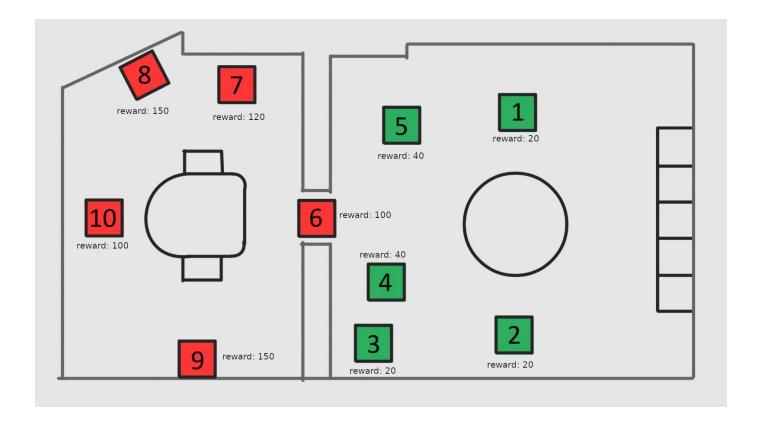


# PLANNED STRATEGY

#### **Planned Strategy**

## Zones

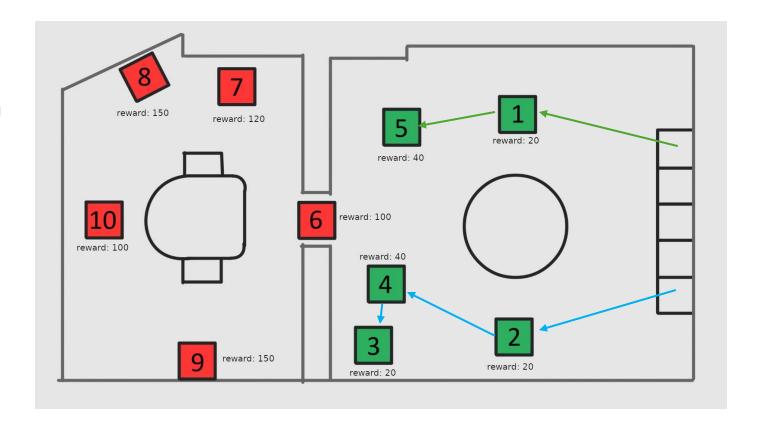
- Easy zone first
- Hard zone second
- Only one zone change



#### **Planned Strategy**

# **Goal Sequence**

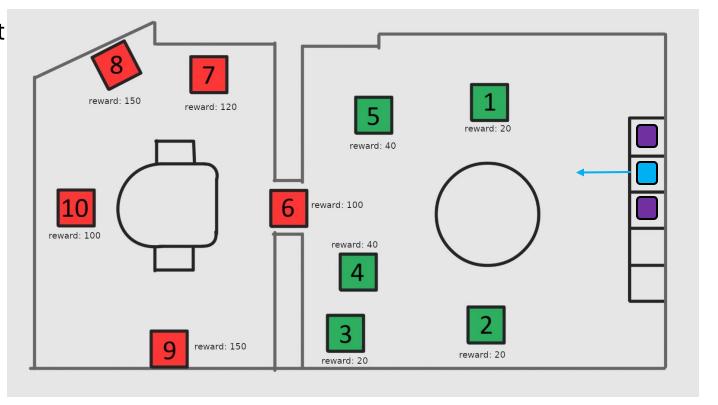
- Nearest Goal Next
- Advantage: Independent of start position



# **PROBLEMS**

## Start in the middle

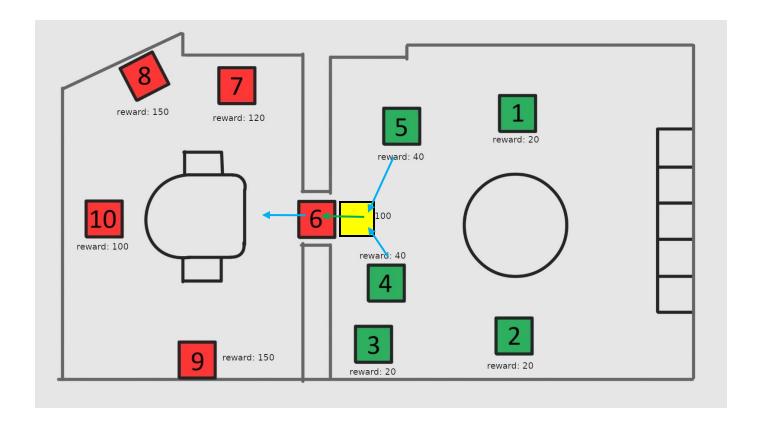
- Move base doesn't want to start in this narrow space
- Drive "manually" forward



## Zone change (Plan A)

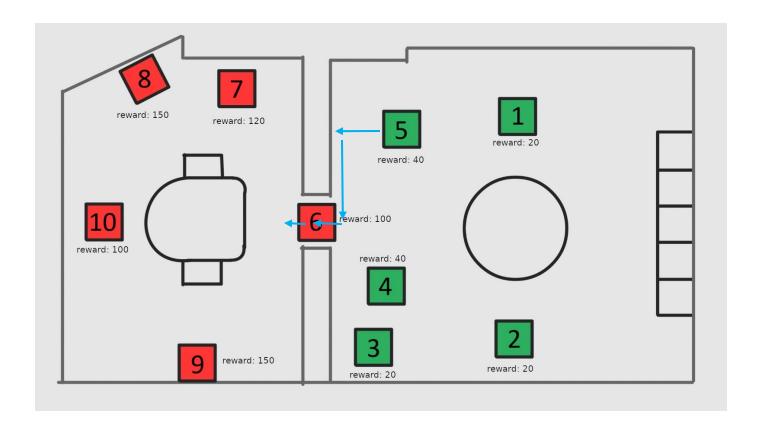
#### Three steps

- Move base to helper Goal
- 2. Drive "manual" to goal 6
- 3. Switch back to Move base



# **Zone change (Plan B)**

Follow-The-Wall



## **End behavior**

 After the last goal, the bot should free the last goal, that it isn't blocked

