

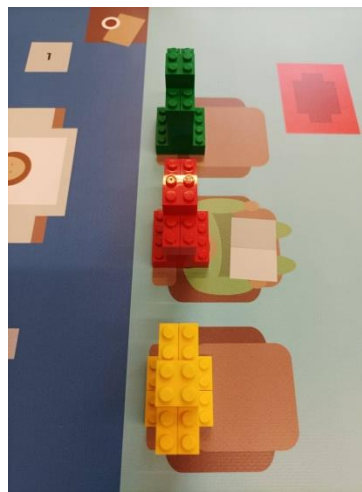
## WRO 2022 FRIENDSHIP INVITATIONAL

### RoboMission Senior Extra Challenge

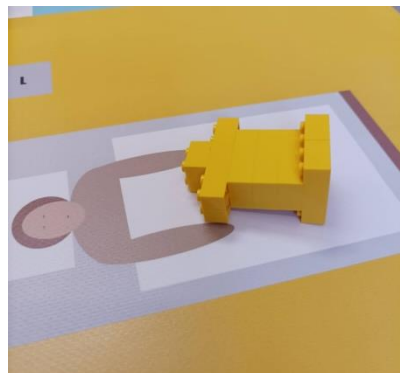
The robot starts completely from the yellow room. The team can decide where they want to position the robot within the room.

#### 1. Patients Find Their Way

Three patients came for an appointment and are waiting for directions next to the blue room. Your robot has to take them to the room with matching colors and place them on the bed. Starting position of the patients can be seen on picture below:



Maximum points are awarded if the patient is completely lying on the bed in the correct matching color room.

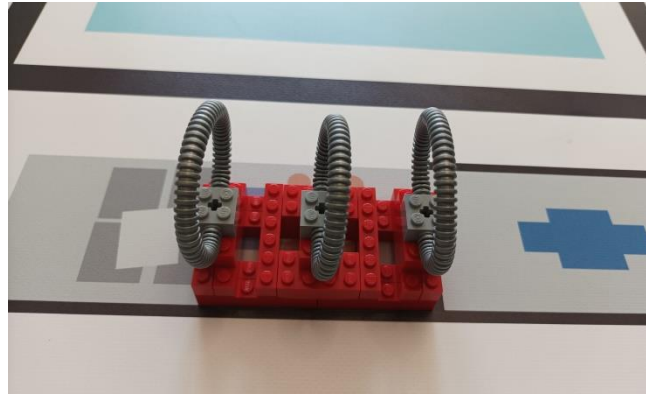


Partial points are awarded if

- the patient is completely lying on the bed but **the color of the room does not match** the color of the patient or
- the patient is completely **standing** on the bed and the color of the room matches the color of the patient or
- the patient is **partly** lying on the bed and the color of the room matches the color of the patient.

## 2. MRI Machine

A new MRI machine arrived to the hospital and the management wants to upgrade the blue room to be an examining room. You have to place the MRI machine standing completely inside the blue room. Starting position of the MRI machine can be seen in the picture below:



## 3. Blind Entertainer

There will be a show for the patients in the aula of the hospital and the entertainer who is invited is blind. You have to escort her onto the stage so she can start the preparations for the show. Starting position of the blind entertainer (blue) is next to the reception, see picture below:



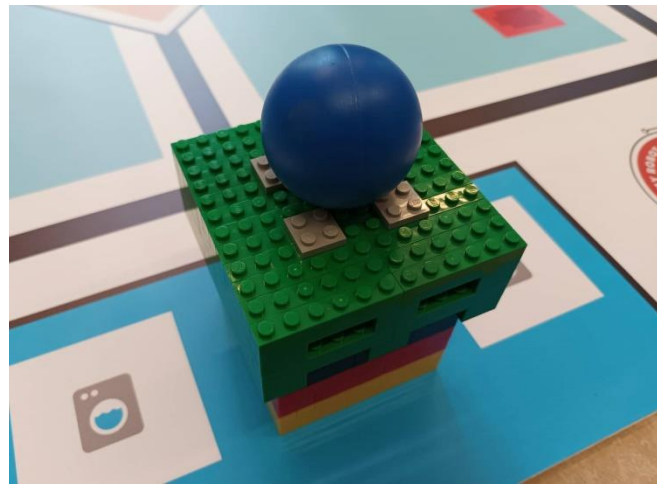
Starting position of the podium can be seen in the below picture with the entertainer placed on it correctly:



Points are only rewarded if the entertainer is standing on the podium and the podium stays completely inside the start / finish area.

#### 4. Playground Next Door

Next to the hospital there is a playground, kids were playing football and unfortunately one of them kicked the ball through an open window, right on top of a big wardrobe. You should make sure that the kids get their ball back. Below you can see the starting position of the ball on the wardrobe inside the laundry area:



Points are awarded if the ball is completely outside of the competition table and the wardrobe stays completely inside the laundry area.

#### 5. Bonus Points: Spare the Fountains

The management placed two fountains in the aula as decoration. Bonus points are awarded if those are not moved from their red starting area. Starting positions can be seen in below picture:



## Scoring Sheet – WRO 2022 RoboMission

### Senior Extra Challenge

Team name: \_\_\_\_\_

Round: \_\_\_\_\_

Tasks	Points	Score
<b>Patients find their way: the patient is completely lying on the bed and the color of the room matches the color of the patient.</b>	<b>20 / patient (max 60)</b>	
Patients find their way: <ul style="list-style-type: none"> <li>• the patient is completely lying on the bed but <b>the color of the room does not match</b> the color of the patient or</li> <li>• the patient is completely <b>standing</b> on the bed and the color of the room matches the color of the patient or</li> <li>• the patient is <b>partly</b> lying on the bed and the color of the room matches the color of the patient.</li> </ul>	10 / patient (max 30)	
<b>MRI machine: the MRI machine is completely standing inside the blue room.</b>	<b>30</b>	
<b>Blind entertainer: the entertainer is standing on the podium and the podium is completely inside the start / finish area.</b>	<b>30</b>	
Blind entertainer: the entertainer is on the podium but not standing and the podium is completely inside the start / finish area.	10	
<b>Playground next door: the ball is completely outside of the competition table and the wardrobe is completely inside the laundry area.</b>	<b>30</b>	
Playground next door: the ball is no longer on top of the wardrobe and the wardrobe is completely inside the laundry area.	10	
<b>Bonus points / spare the fountains: fountains are completely inside their red starting areas.</b>	<b>15 / fountain (max 30)</b>	
<b>Total score (180)</b>		
<b>Time (in full seconds)</b>		

\_\_\_\_\_

team member signature

\_\_\_\_\_

judge signature