

Period 3 - lessons learned

Experience Gained

As a team we learned how to detect errors and how to deal with them in an accurate way so that the robot can perform the task with great efficiency.

Abd El Baset built the Create (big robot) with the help of the ideas suggested by the team members and learned how to fix two servos on the Create arm in a right way.

Mohd. Ahmad worked on building the perfect LEGO (Flare) robot structure that can perform all the required missions, he also learned how to build an effector that can carry the yellow prisms above each other at once.

The programming team members: Omar, Jabr and Hesham learned how to form a function that consists of a perfect equation for two servos moving in opposite directions and other complicated functions.

The Documentation team that consists of George and Ahmed Al-Aubidi, distributed the work equally on the members and started sharing surveys with the team members to gather the required documentation tasks from each team.

Documentation Process

We gained a lot of experience while writing the documents such as:

1. Gathering information by recording it from the team members while they work on their specific tasks.
2. Passing weekly surveys for team members, to have a summary about everything they learned.
3. Writing each task in the rubric with its given sequence.
4. One member to write and the other member to revise grammar and punctuation.
5. To make our own deadline for each document, so that we make sure it's submitted before its specific time.

Surprises

We were all surprised by having the workshop right before the first term exams.

Members that joined recently to the programming team were surprised to learn how to create a loop that binds two or more functions together.

The new designing team members were surprised by having a low limit use of servos and LEGO pieces, also to have very limited robot measurements.

The documentation team's big surprise was that the documentation marks will only be published on the competition day.

Advice for Future Teams

First and foremost, our advice for the future teams is to read the scoring sheet more than once and to focus on the tasks with the highest points, also to specify a student for revising grammar and punctuation of documents.

Moreover, each team should make an initial schedule for their work so that they will not miss any deadline and will have spare time for performing the whole competition tasks and to solve the errors detected.

Thirdly, each team member to break ice with other teams, and to gain experience from volunteers.

Finally, to focus while performing the onsite presentation and of course to enjoy the competition and keep sportsmanlike no matter what happens.