Group
Robot Future

Project
Industrial Robotic Arm

Production Line

1. Modeling the parts using 3D printing
2. Assembling the parts manually
3. getting the servers and licenses ready
4. Packaging: Roll bubble with compressed cork to hold the device in small box which will be wrapped with plastic.

Time Line

4 days : designing and printing the parts

4 days : designing the circuit used to control the arm servos

5 days : designing the user interface and connecting it to database

7 days : using the ROS OS to control the movement of the robotic arm

Project Plan

1. Developing and defining the project concept and gather ideas.
2. Understanding the project requirements and dividing the tasks among the team
3. Determining the tasks deadlines and developing ways for different team members to communicate with each other
4. mainlining the work flow and making sure the project finish by the deadline and meet the project requirement.

Tasks Arrangement

1. The mechanical engineer will assemble the 3D arm model using solidwork and get it ready for printing
2. The electrical engineer will design the circuit to control the servos so it can be controlled from the IOT side.
3. The IOT team will make the interface needed to help the user control the arm and connect it with the database using HTML and php languages.
4. The AI team will help control the arm movement using ROS OS and Rvis

Group Structure

Leaders
1 - Afaf
2 - Lamiaa

Electrical
1 - Abdulrahman Eidhah owayj
2 - Bassim Mohammed
3 - Ahmed

Mechanical
1 - Ibrahim 2 - Abdullah
3 - Mashari 4 - Eyad

IOT
1 - Ragad
2 - Shayam
3 - Rnam

AI
1 - Khalid
2 - Malik

Designed by
Abdulrahman Owayj