Project management framework

Requirement analysis:

1- Automatically responding to the speech:
With specific coding the robot can answer the questions directly also responding to the orders such as left right once it's said .
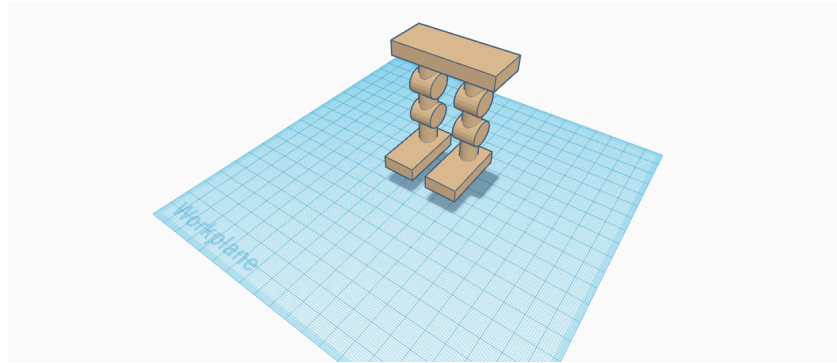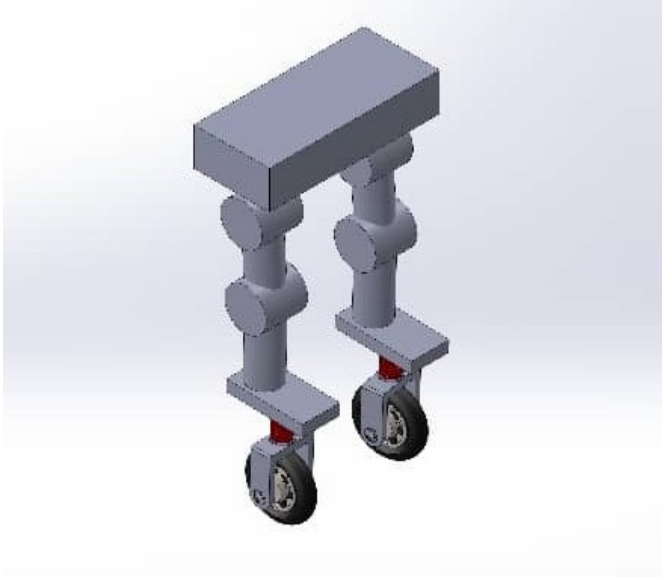
2- kinetic balance:
Using (PID and LQR) system, the human robot must able to stand and move on different kinds of surfaces besides using certain types of legs and arms joints to help with equilibrium process.

3- Electric arm:
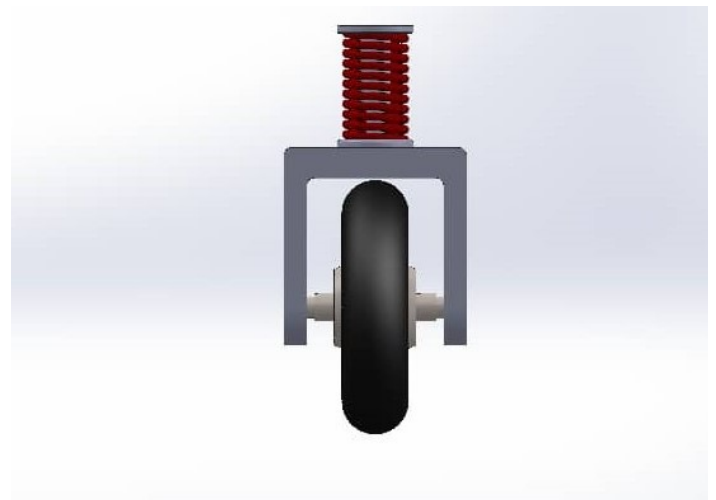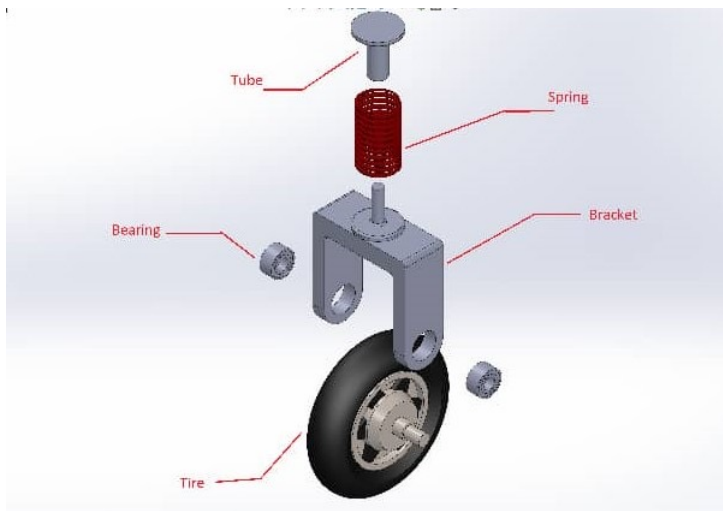An electric arm designed for industrial processes responding to voice orders.

Design:

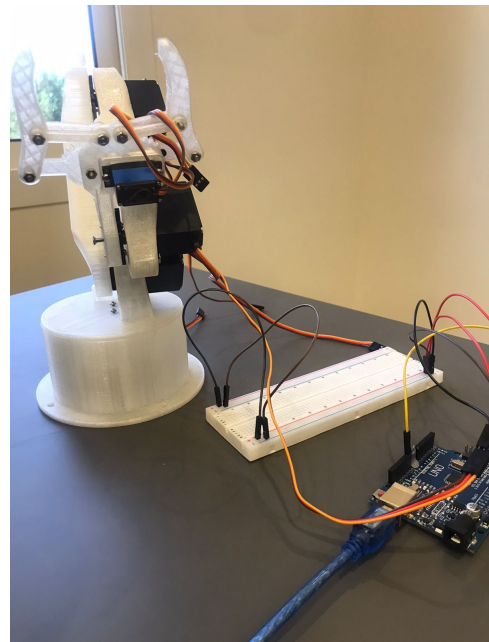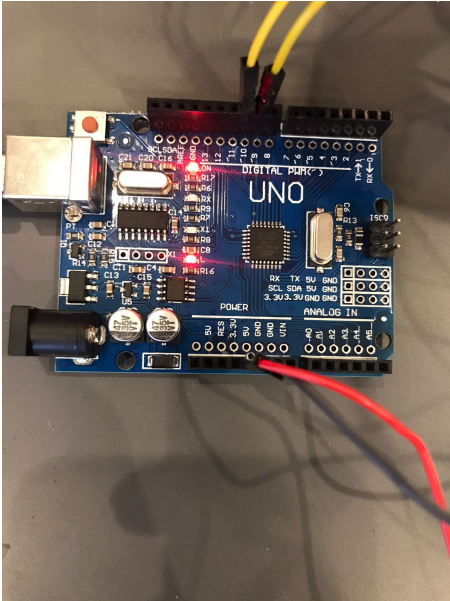. Mechanical engineering department designed legs.

Develop:

. Wheels installation

Tube

Spring

Bearing

Bracket

Tire

. Connecting breadboard with Aruino:

Testing:

Testing the electric arm