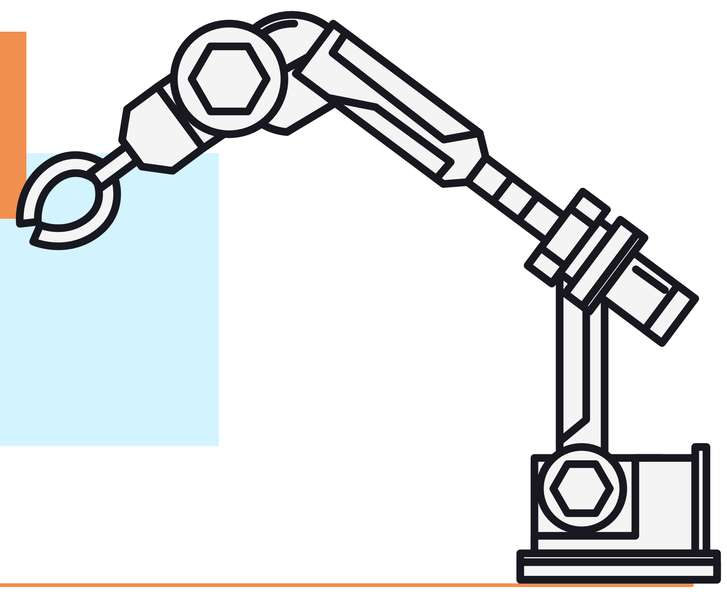
أكاديمية طويق
TUWAIQ ACADEMY

THE MCL

Maximum Containment Laboratories



INSPIRATION:

Inspired by the “Glove Box” that is used in laboratories to detect dangerous materials, such as: chemicals, viruses, and manufactured materials

FEATURES OF MCL:

1- Reduces the risk to the maximum degree of protection
2- Increases safety rate
3- Reduces the cost in terms of abandoning the purchase of protection jackets

COMPONENTS:

1- Servo Motor
2- Servo Driver
3- Flex Sensor
4- Gyroscope
5- Arduino Uno

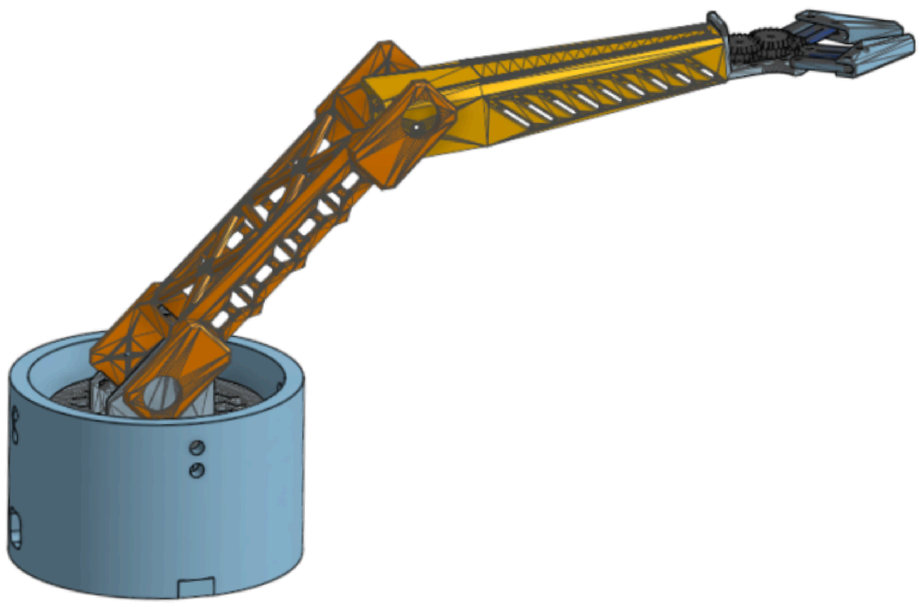
SAFETY FEATURES IN THE FUTURE:

1- Providing sterilized gases, such as: ethylene oxide and ozone gas
2- Providing purification fans

FUTURE GOALS:

1- Increasing the precision of the sensors used
2- Control using two arms instead of one
3- Enabling 360 degrees of movement
4- Controlling them remotely via Internet of Things

PROTOTYPE



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