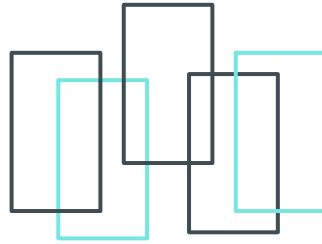


The background is a dark blue-grey color. It is decorated with various geometric elements: teal circles of different sizes, some with white dotted patterns; white circles and hexagons; teal hexagons; and white dotted patterns arranged in grids or arcs. Some elements are solid, while others are outlines or patterns. The overall aesthetic is modern and technical.

Industrial Robot Arm

Industrial Track

Project Plan



Teamwork

- The way we work will be collective , The team will work together in all tasks and in parallel to conserve time, exchange experiences and skills, and preserve time.
- Our industrial robot arm is to help laboratories, and factories to increase production by carrying materials and small products.

Task Distribution



Industrial

Allocate the tasks and responsibilities for the team members, determine the amount of time required, testing and reviewing the work.



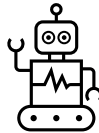
Mechanics

Responsible for the production line, taking measurements and designing the arm.



Electrics

Figuring out the needed electronic devices and how to program them and compute the degree of efficiency.



AI

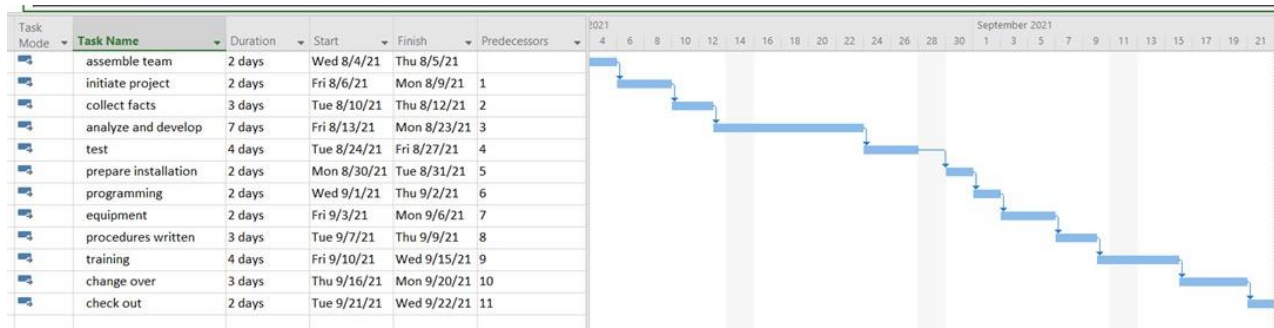
Apply the sensors in the arm so it recognizes its surroundings and doesn't hurt anyone.



IOT

supervise the development of the devices or sensors themselves, programming the software that allows us to control the arm.

Timeline



Introduction

- Robotic arms are generally made to simulate a human arm. This is achieved by giving it 7 various segments each part giving it more motion.
- Robot arms will often have: The above stated 7 various segments bound together with 6 joints.
- Programmable which gives the user a choice to rotate each motor at various times.
- Have multiple attachments, meaning a robot can have claw, drill, welder, spray gun etc.
- Various sensors to perform specific tasks.



01.

Modelling

Cutting tool ,3D print and CNC

02.

ASSEMBLY

Mechanical



Production Line

03.

PACKEGS

Box

04.

Software

App & Website



Our Team

Idrees Yahya

IE, Team Leader

Naif Alzahrani

ME, Team Member

Abdulrahman Makkawi

EE, Team Member

Annas Almagdawi

Software and IoT, Team Member

Reem Alhamed

AI and Robotics, Team Member

Ahmad Sami

AI and Robotics, Team Member



Thanks!

Smart Methods

Summer Training Internship



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