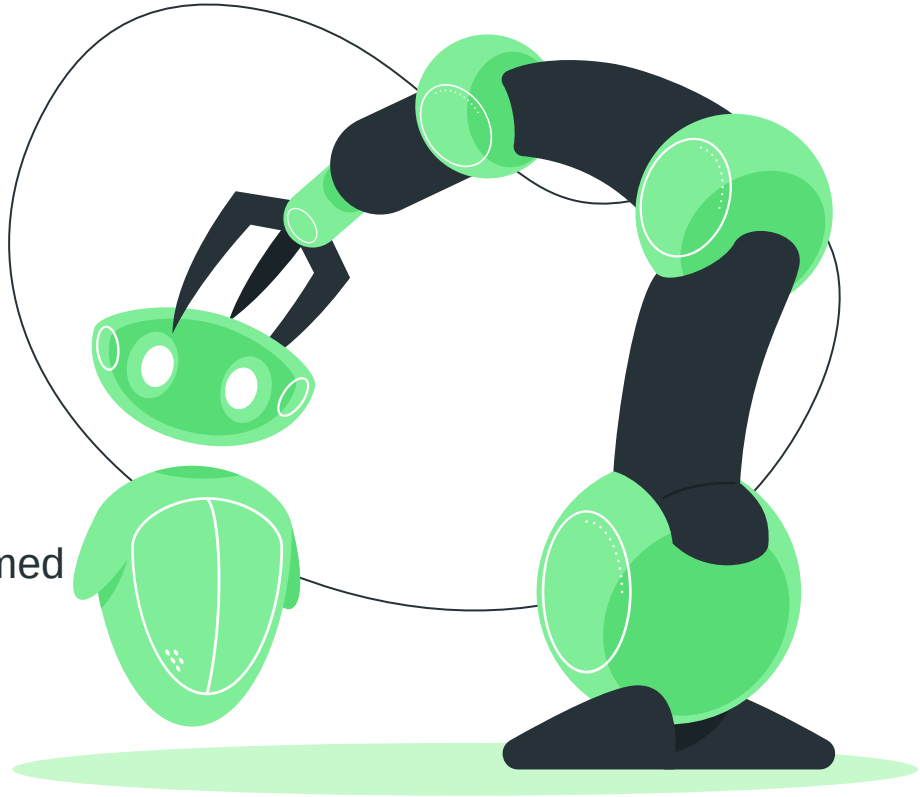
INDUSTRIAL ROBOT ARM

Errorx Group ;
Eman Mastour& Ruida Ail & Lama Mohammed

Project Plan
Smart Methods



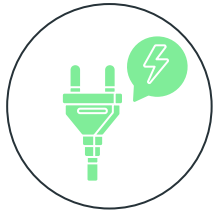
Our Team

IOT

E. A

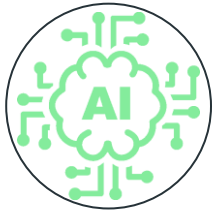
Industrial

E.Lama & E.Ruida & E. Eman



Electrical

E. D & E. F



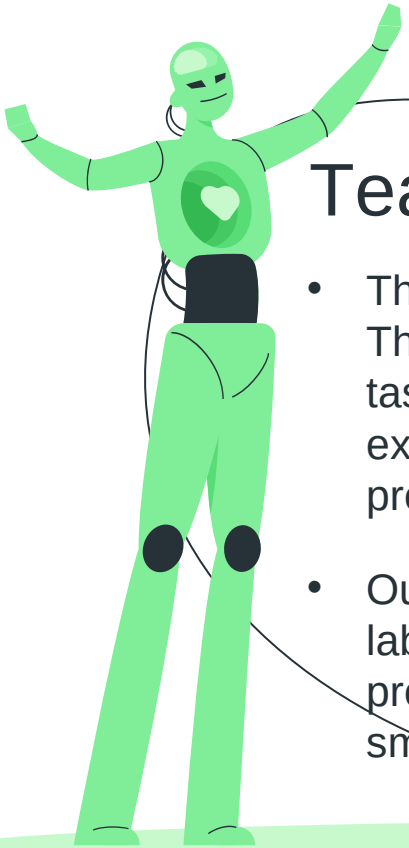
AI

E. B & E. C

Mechanical:

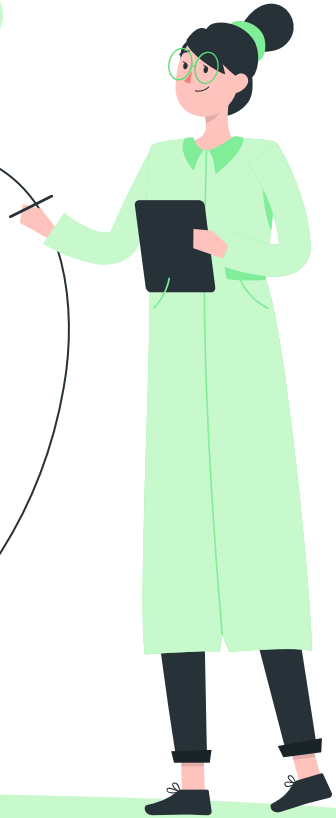
E. G & E. H

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.

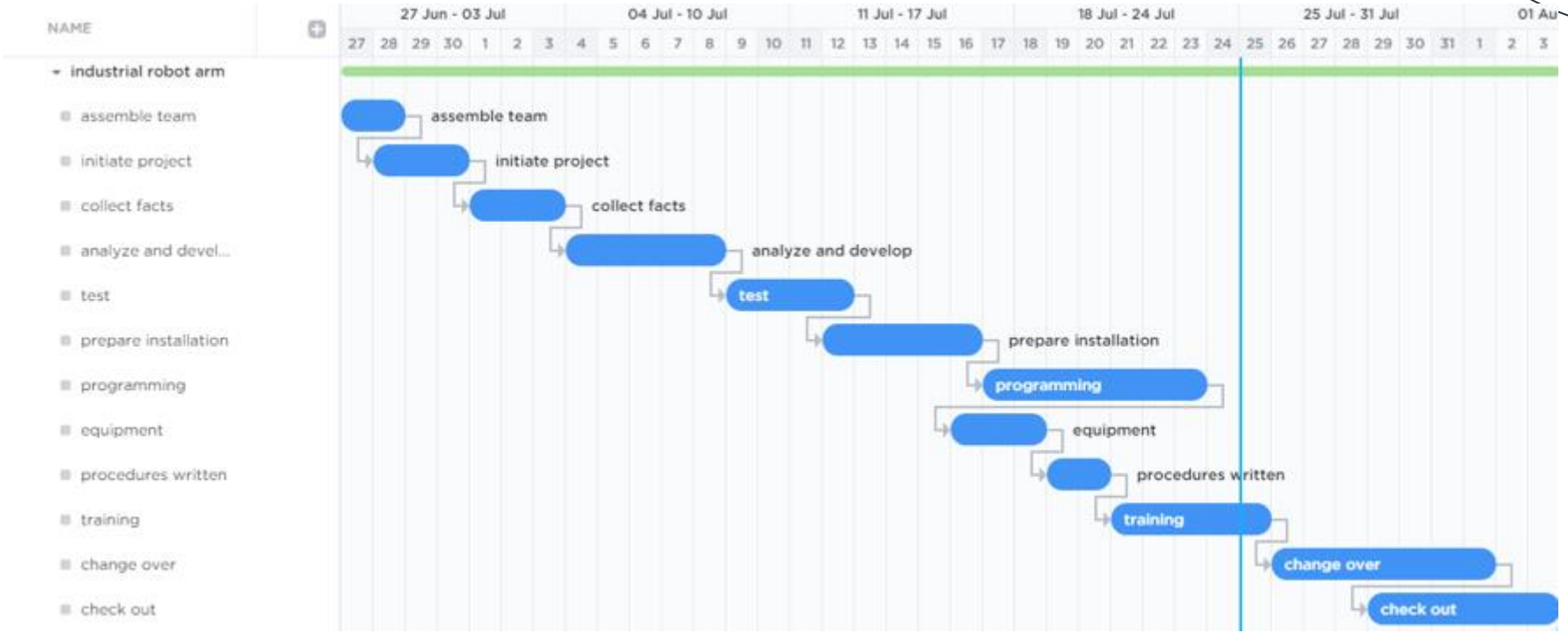
AI

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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industrial robot arm
assemble team
initiate project
collect facts
analyze and devel...
test
prepare installation
programming
equipment
procedures written
training
change over
check out
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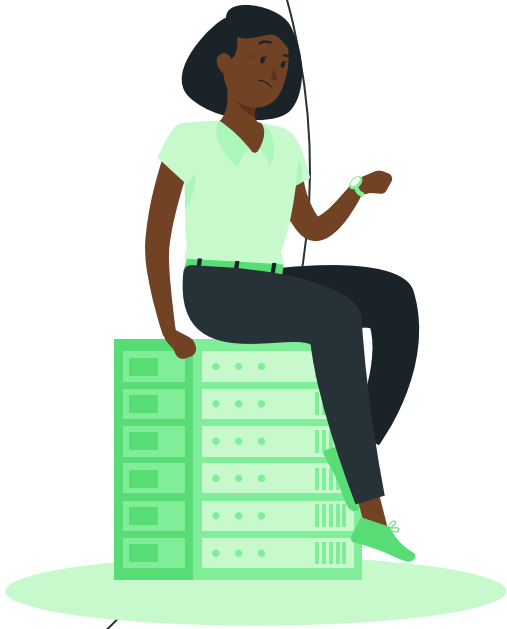
Introduction

- Robotic arms are generally made to simulate a human arm. This is achieved by giving it 7 various segments each part giving it a larger degree of 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.



Poduction Line

1

MODELLING

Cutting tool ,3D print and CNC

2

ASSEMBLY

Mechanical

3

PACKEGS

Box

4

PROGRAM

App and Web