

# Assignment 1

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## Task 2

- Manipulators
  - Scara Robot. ( [SCARA Robots](#) )
  - 2 revolute joints and a prismatic joint
- UAV
  - Mainly drones that have flight capabilities.
  - Anafi parrot [Parrot ANAFI - The flying 4K HDR camera- Official video](#)
- UGV
  - Robots that generally move on the ground
  - Robot vacuum
    - [Clean Floors with the Press of a Button | Roomba® 900 series | iRobot®](#)
- Underwater
  - Robots whose purposes are served while submerged. Specially designed for moving in water or under
  - The snake bot [Snake Bot](#)
- Microrobots
  - Robots that are small and are mostly used in a swarm configuration
  - Magnetic robot [Magnetic Micro-Robots](#)
- Soft robots
  - They do tasks harder for hard robots
  - Soft robots [Unique \(and creepy\) soft robots](#)
- Exoskeletons
  - They can be attached to the body, and they help enhance the action beyond human capabilities
  - Hypershell ai
    - [One Horsepower AI Exoskeleton Powers Your Everyday Adventure](#)

## Task 3

- DC Motors (Direct Current):
  - DC Brushed Motors:
    - These motors use brushes and a commutator to switch the direction of current flow in the armature windings, causing the rotor to rotate.