

HumanEd

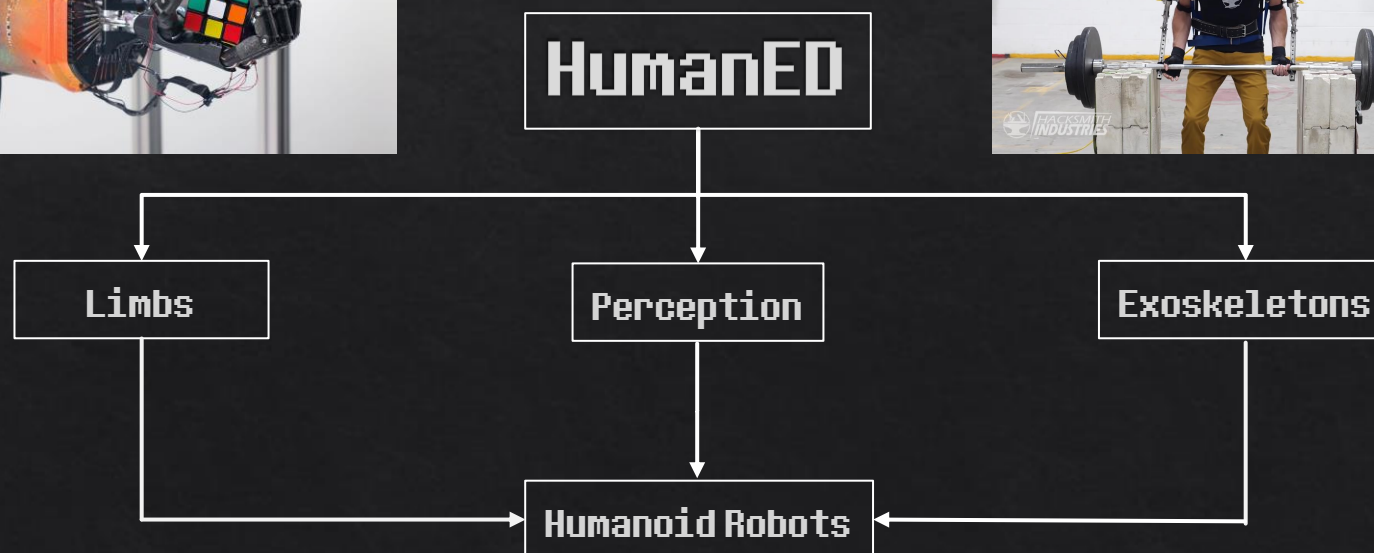
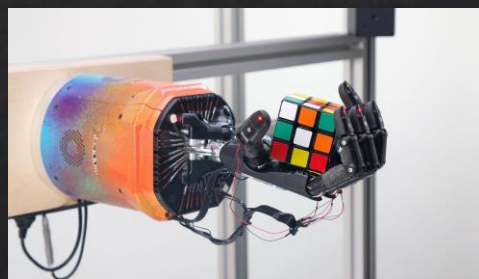


- ❖ What is HumanED?
- ❖ Initiative
- ❖ Limb Project
- ❖ Exoskeleton Project



What is HumanEd?

- ◆ HumanEd was founded in 2021 to meet a growing demand for undergraduate and postgraduate students interested in robotics.
- ◆ Aim: research and develop humanoid robots





Initiative



The Society surges as a Necessity for Long Term Projects in Robotics for Students



Working to Bring Humanoid Robotics Closer to Everyone



Research and Implementation of ML with Robotics



Incorporate Med and BioMed students in a Technical Society

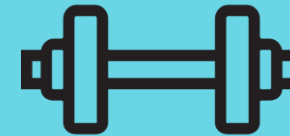


This Year's Projects



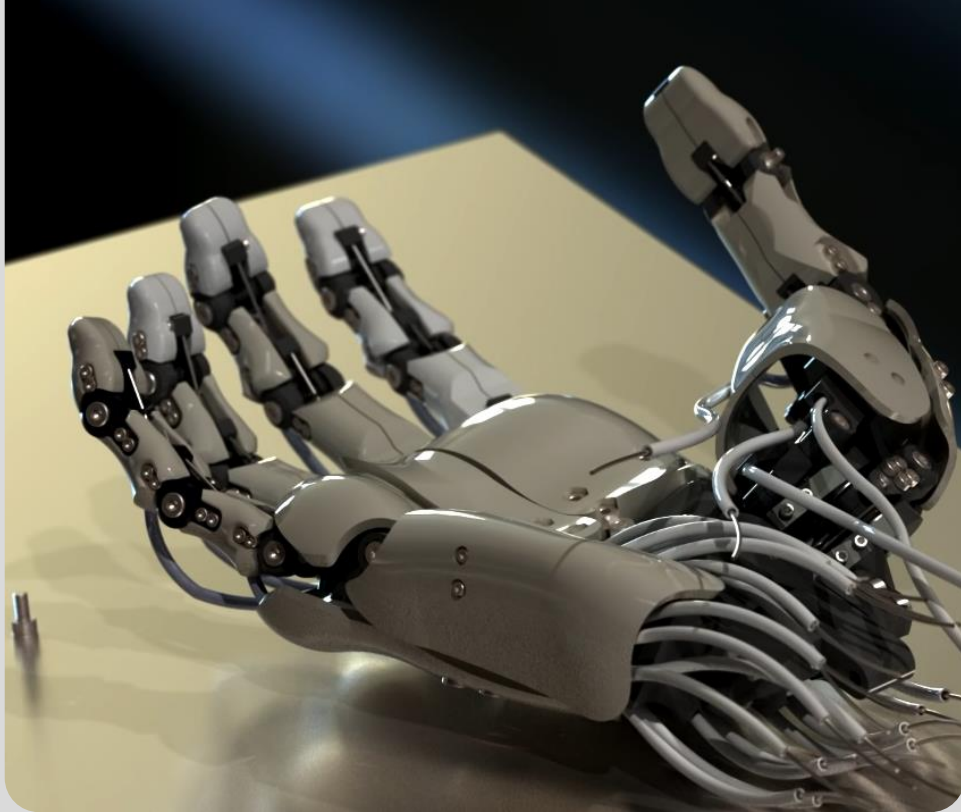
Biomimetic Hand

Researching & creating a biomimetic hand capable of solving a Rubik's cube.



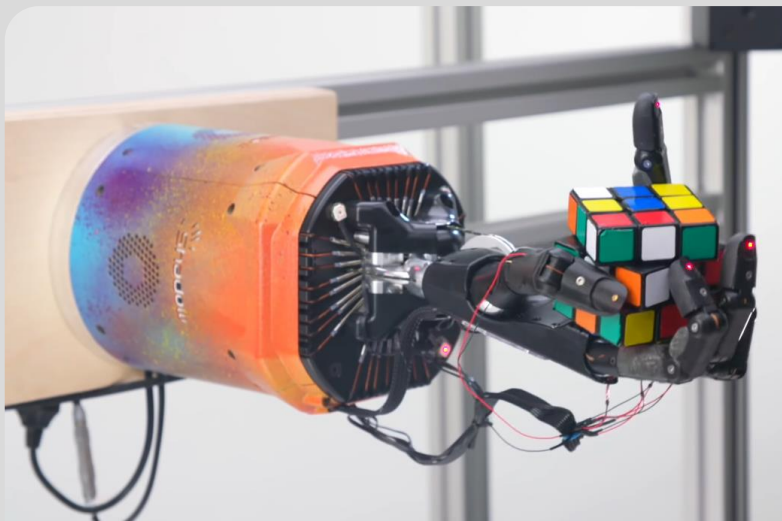
Exoskeleton Arm

Researching & creating an exoskeleton arm to improve a human's strength and precision. Capable of exporting information to VR environments and helping to recover movement.



Limb Project

- ◆ Complete design and build of a robotic arm.
- ◆ AIM: make this hand solve a Rubik's cube
 - ◆ Trying to make a hand that is able to portray "fine motor skills"
- ◆ The arm will give the team experience on
 - ◆ 3D CADing and 3D printing
 - ◆ Servo/Movement + rest of electronics control
 - ◆ Simulation of a Limb
 - ◆ Apply Computer Vision
- ◆ Project focused for students of:
 - ◆ Computer Science
 - ◆ Electronics and Electrical Engineering
 - ◆ Mechanical Engineering
 - ◆ Bioengineering and Medicine






Exoskeleton Project

- ◆ Our first exoskeleton will be focused on increasing biceps and torso strength
- ◆ The project will give the team experience on
 - ◆ Working with actuators
 - ◆ 3D CADing
 - ◆ Manoeuvring bigger metallic pieces and tools
- ◆ Project focused for students of:
 - ◆ Electronics and Electrical Engineering
 - ◆ Mechanical Engineering
 - ◆ Bioengineering





Thank you for your time!!