- 1. RoboCar
 - a. Run the 6 motors from Arduino IDE
 - b. Setup wifi/Bluetooth to control the 6 motors from ArduinoIDE
 - c. Make a flask server
 - i. Python script to control all 6 motors
 - ii. On IP
 - iii. All devices should be on the same network
 - d. Unity Connection
 - i. Make UnityWebRequest
 - 1. Or a TCPCLient to connect to the flask server address
 - ii. Run this in a **coroutine**.
- 2. Share Unity Project:
 - a. Download git/github desktop
 - b. Create a github account
 - c. OR Compress and Upload to a cloud drive

d.

- 3. Live Streaming Car with Alert
 - a. Stream the camera view from car to unity app
 - b. Raise an alert on some event
 - i. Get the trigger in unity app whenever the event happens
 - 1. Get an all time connected channel topclient or UDP
 - 2. Mqtt topic: event driven
 - a. Create a mqtt topic to /alert
 - b. Robot Side Code: publish on the above topic some info whenever sensor reads alert
 - c. Unity Side: Subscribe to the above topic
 - Get notifications or infor whenever something is published
 - ii. Do what you like with it
 - 1. If true
 - a. Change color to red
 - Server running on the unity app or the same computer as unity project
 - 4. All should be in the same network; same wifi
- 4. RoboArm
 - a. Use serialport System.IO.Ports for wired USB connection to robot arm Arduino
 - b. Use
 - i. Python flask server on robot side
 - ii. Tcp client or unitywebrequest on unity side
- 5. Demo
 - a. Digital Twin creation
 - i. Real Robot Arm control
 - b. Object Detection
 - i. https://www.youtube.com/watch?v=RQ-2JWzNc6k

ii. https://ai.google.dev/edge/mediapipe/solutions/guide

c. Al integration

i. https://github.com/undreamai/LLMUnity

ii.