CSE525 Final Project Proposal

- Clearly specify the task and outline how you will achieve it.

The final project is do-as-I-do project. The details is as following,

    I and Zewei Ru, my teammate, will construct a humanoid robotics, which scans my movement through the Kinect and does the similar movement as me. For example   I move my left arm , the lego robotics lifts its left arm, I move my left foot first, the lego can move left foot first . I dance the Lego can imitate my posture sequentially.

- Cleary specify the hardware platform (lego/galileo) that you will use.

    I will the Lego hardware platform to do my final project.   The useful project library is opencv , Lejos, Kinect SDK, opengl and J4K platform.

- Clearly identify the sensors or hardware components that you will need to buy/borrow.

    I need the Kinect 2,   camera sensor.

In order to establish the humanoid model , I need some component such as different size link and specific joints, which are include in the general Lego package not in the educational version lego. I will buy this part from amazon

- You can include pictures or video links for a similar system.

https://www.youtube.com/watch?v=7vq-1TiXi3g   15