**Big Idea:**

Our Final Project device is a distributed handshake system that is meant to facilitate communication and connections between two users who are physically located in separate locations. The device includes two co-located robotic hands which move and operate on servo motors connected to the wrist joint and fingers. The two hands would move in a handshake motion on inputs from the users. If the users time sending the handshake signal well and the two hands successfully make contact, a contact sensor sends a positive feedback signal to the users.

**Timeline:**

Nov 18th – Talk about ideas and submit Project Plan

Nov 19th – 26th – Iterate on project plan and create hardware setups through cardboard or 3D printing

Nov 27th – Dec 4th – Write software portion of the project and correct hardware bugs

Dec 5th - Dec 7th – Video Editing and make project presentation

Dec 8th – Dec 12th – Write up and Documentation

Dec 13th – Contingency day for emergencies

Dec 14th - Copious amounts of alcohol consumption to rehabilitate the team’s mental health

**Parts Needed:**

* 3d printed or cardboard hands
* 10x servo motors
* Fishing wire or taut string
* Copper contact material
* Contact sensor

**Risks/Contingencies:**

3d printing being too complicated

Contact sensors not working as intended

Build falls apart due to weight and structural issues

**Fall Back Plan:**

Simpler version: high five machine