

Allison Morgan

P21068 – Robotic Arm Drawing Assist

Feasibility Questions

1. How can the device best grasp different sizes of utensils?
 - a. Prototyping
 - b. Assumptions
 - i. Device needs to be able to grasp different sizes of tools, such as markers, crayons, and colored pencils
 - ii. Utensil can be changed out manually or automatic
 - c. Tools
 - i. Basic prototyping
2. How much power will the device consume?
 - a. Analysis
 - b. Assumptions:
 - i. Device will be used for 30 minutes at a time.
 - ii. Use reliable off-the-shelf components
 - iii. Device can be plugged into the wall or powered through a battery
 - c. Tools:
 - i. Basic power calculations
3. What type of input device will be most accessible for the students?
 - a. Benchmarking
 - b. Karen will be sending a video of the students' abilities and we can benchmark other accessible devices for different input devices