Robotic Hand Speaker Notes

Slide 1: Robotic Hand

- Today we will be creating a robotic hand
- This activity will act as a minor introduction to the Biomedical Engineering field

Slide 2: Introduction

- The volunteers will say their respective names, majors, years, and a fun fact

Slide 3: Biomedical Technology

- Talk about how biomedical technology is created to facilitate living beings
- Humans are in dire need of technological devices to improve their physical selves
    - In hospitals, prosthetics, artificial organs, etc. are needed to replace destroyed parts
- Help to further advance the medical field

Slide 4: Robotic Hands

- Not only does it serve to help grip, hold, or carry objects, but also can repair the sense of touch

Slide 5: What is Biomedical Engineering?

Slide 6: Biomedical Engineering

- Create artificial organs, diagnosis machines, body part replacements, 3D X-Rays, external body braces, and an abundance of other additional technological gadgets
- Daily responsibilities include designing, testing, and implementing new medical procedures as well as modifying products, equipment, and devices
- Biomedical engineers collaborate with people in the medical and technical fields, administration, and sometimes patients

Slide 7: Challenge

- Describe activity briefly

Slide 8: Materials

- Go through materials needed

Slide 9: Step by Step Procedure

- Describe how you have images that will help guide them through the process

Give students 10-15 minutes to complete activity

Slide 10: Procedure

- See how students accomplished tasks given the materials
- Explain steps briefly and their significance after they have completed activity

Slide 11: Discussion Questions

- Ask students discussion questions (active participation)

Slide 12: Thanks!

- Thank students for their time and tell them to enjoy the rest of the MYO experience!
- Ask them if they have any overall questions about MYO, SWE, etc.