Overview:
A prosthesis is a manufactured extension which can replace a missing body part. They are used to replace parts missing from birth or lost by injury.

Methodology:
To construct a prosthesis arm, we use a 3D printer to print out the parts of prosthesis arm. It works well after construction and adjustment. It can also do different kinds of gestures.

Measuring muscle activation via muscle sensor, referred to as electromyography (EMG). Once the EMG sensor detects your muscle is contracted, prostheses hand can do the gripping.

Result:
In this project, we developed a robotic arm which is controlled by electromyogram (EMG) signal. Plus, disabled people can use a mobile app to swap different kind of gestures via Bluetooth.