

Prosthesis Control via sEMG Sensors & A.N.N.

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Proposal of Work

This document proposes that for our senior project we will use the MYO armband to collect data, and a neural network in MATLAB to process and analyze that data and then give a classified output. Which will be sent to an Arduino microcontroller that will control a robotic prosthesis via six servo motors. All being done to achieve the goal of creating a gesture recognition/mimicking device.

Project Deliverables	Owner	Parts Req./Cost
Creating & programming an artificial neural network in MATLAB to control a robotic hand from a classified output. Building an app that provides a more user-friendly environment.	Zack Minshew	MYO Armband MATLAB software
Creating & programming the circuit that would communicate with the robotic hand and the supply the power.	Jheric Byrd	LattePanda Delta [\$228]

Block Diagram



Signatures

Student

Date:

Student

Date: