# Abstract

The purpose of the Robot Arm project is to create a robot arm that has many purposes but for the main purpose would be an assembly line or sorting. The main components are servo motors, color sensor, mobile app, and the robotic arm will all be explained in great detail. The arm itself will be controlled by four analog feedback servo motors. One at the base of the arm to control left and right in a 180 ° Than two more for the arm itself to extend it and retract. The last motor controls the grip which will open and close it. Than all servo motors will report back to the database their positions. Which the user can edit through the mobile application. The arm itself is made out of acrylic parts. It will be connected to a Raspberry Pi 3 and an Arduino. The Pi being handling all software aspects of the project and the Arduino handling the PWM. The main focus of this technical report is to give the users a full understanding of the project and how it came to be.