**Assignment**

**Part One (2 weeks):**

Make a robot that can follow a set route

- The route will not change, nor will the location of the path
- The route will be marked with black tape

Note: this can be accomplished with only the pieces provided, but you are allowed to add additional pieces or components if you choose.

**Part Two (2 weeks):**

Create an Android app that acts as a remote controller for the robot.

You may use any IDE that you choose (ex. Android Studio)

The app must connect to the robot through the bluetooth connection provided by the Bluefruit EZ-Link

The app must include:

- Directional control (forward, backward, right, left)
- Speed control

**Components and Useful Websites**

Actobotics Peewee Runt Rover
https://www.servocity.com/peewee

Arduino Uno
https://www.arduino.cc/en/Main/Software

Motor and servo shield
https://learn.adafruit.com/adafruit-motor-shield-v2-for-arduino

Bluefruit EZ-link (part 2)
https://learn.adafruit.com/introducing-bluefruit-ez-link/overview