Due: 04/19/2023

Rover Mission #3 – Basic GPS Navigation

1. Point due North. From an arbitrary start location and heading, navigate so that the
rover is pointing due North. Point north within +/- 20° and complete the mission
within 180 seconds.

\*Requires two consecutive successful runs

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Results

**PASSED**

**Rover Version**

Rover V.3 was used to attempt this mission which included a DC motor, Arduino uno, L298P shield R3 motor driver module, Futaba S3003 standard servo, 9.6V 2000mAH NiMH battery pack, MG90S micro servo,433 MHz RF receiver and a Adafruit Ultimate GPS breakout module.

**Arduino Code**

***Mission 3A***

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**Following Modifications**

Moving forward to Mission #4 we are considering adding in an Arduino Mega or Arduino slave since the sensor, Arduino and RF receiver libraries are acting weird for Mission 4B.