## **Global Health Drone: Autopilot Controller: FlowChart**



Student Name: Louie Burns Student Username: mn22lby System On Set the pins: Set Global Left Motor - 10 Message – 0. System Variables Right Motor - 9 Started Potentiometer - A0 LEDs, Green (2), Yellow (3), Red (4) Turn on the green LED Initialise motors Wait 1 second (2) with 0 signal Message – 2. Turn off the green LED Message - 1. System Controller (2) Initiated Starting Map the Read Find Elapsed Time by Record Control Signal Potentiometer StartTime -Controller to an Angle Signal ControllerTime Time Find No Is -5 < Motorpercent by Map LMotor Find mapping angle Angle from percentage Error from -22 to 22 to < 5? of 0 -100 to 45 -0 to 100 59 Yes Print Time, Angle, Yes ls Error, Control Signal, Record Angle Motor L, Motor R Horziontal > 5? Map RMotor No Time from percentage of 0 -100 to 45 -55 Turn on Scanning LED (3) Find ScanTime = StartTime -HorizontalTime No Print Time, Angle, ls ScanTime > Error, Control Signal, Motor L, Motor R 5? Yes System Off **Turn Off Motors** Print Time, Angle, Error, **Turn Off Scanning** Control Signal, Motor L, LED (3) & Turn On Motor R & 4. Initialising

Turn off Shutdown

LED (4)

Shutdown

Shutdown LED (4)

Wait 1 second