

Code outline for Hypoxia Registration:

- using the sensor library to pull data

- Store most recent 20 values from the SpO2 in an array

- If hypoxic episode occurs

  - Send most recent and all current spo2 values to .xls file

  - Until 20 non hypoxic values have been recorded

- End

Code outline for Updating oxygen flow

- Using sensor and PID control libraries

- Inverse proportional control of the SpO2 with the output # relating to the number of LEDs to be lit up

- Derivative control to quickly respond to sudden changes In SpO2

- End