

# Team Instrumentation PDR Presentation

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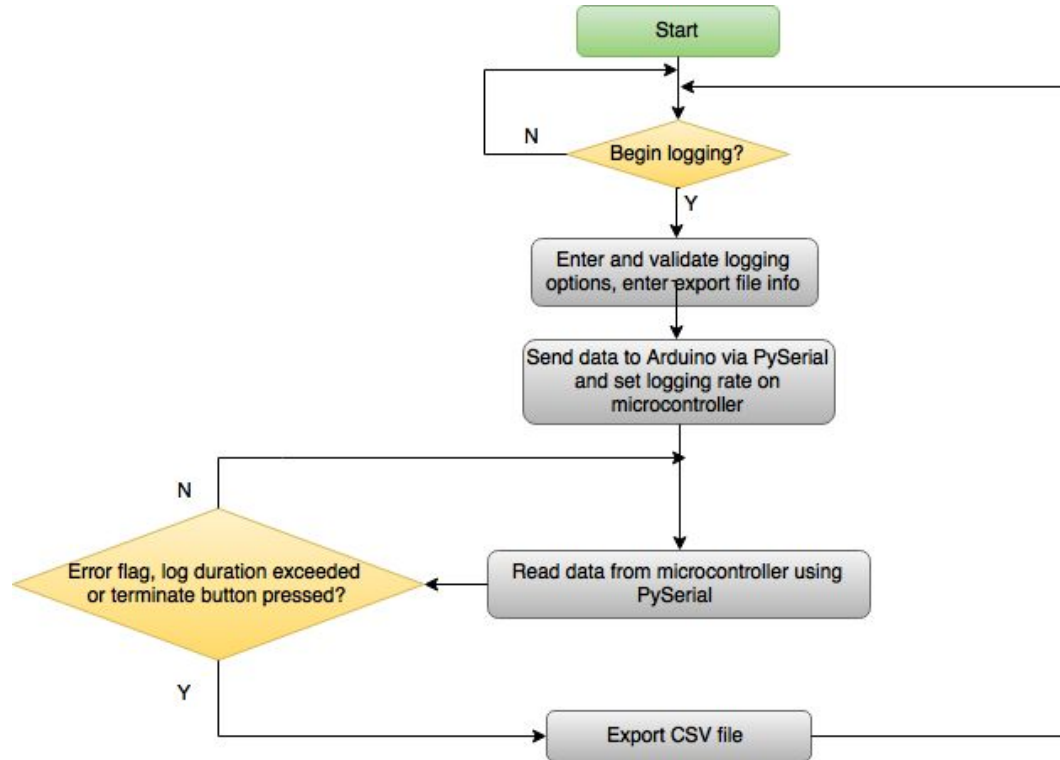
# Overview

- Overall Block Diagram
- Problems and Issues
- Team's Progress
- What's next?

# Overall Block Diagram of System



# User Interface State Diagram



# Problems and Issues

- Hardware:
  - Testing with current sensor
  - Verification of values
- Software:
  - Data entries using XML file
  - PyQt
- Firmware
  - PySerial Library
  - Formatting output data

# Team's Progress

## Hardware:

- Tutorials completed
- Sensor testing/verification
- Specifications of our device finalized

## Software:

- Specifications for GUI
- Basic GUI using Python script/XML
- Researched other GUI building tools

## Firmware:

- Send/Receive data through serial
- Writing serial data to file



# What's next?

- PCB Design
- Creating a functional GUI using PyQt
  - Real-time data display
  - Data export settings
- Integrating serial communications into GUI



Thank you! Any questions?

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