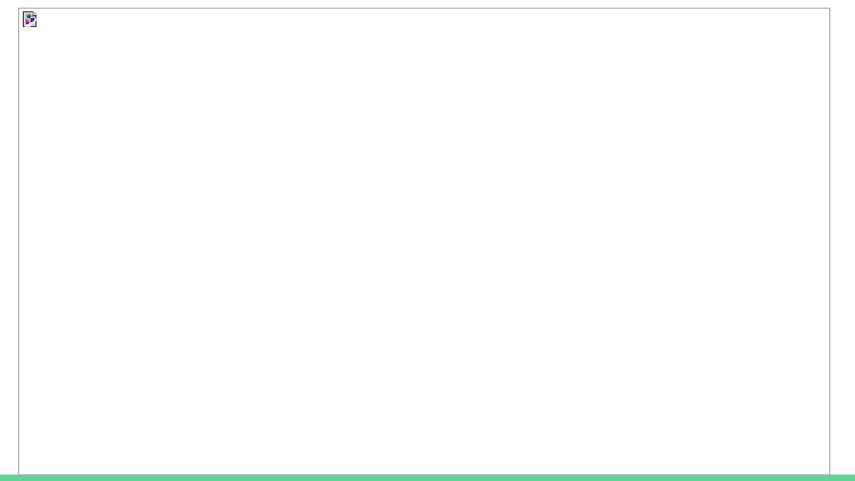
# Team Instrumentation PDR Presentation

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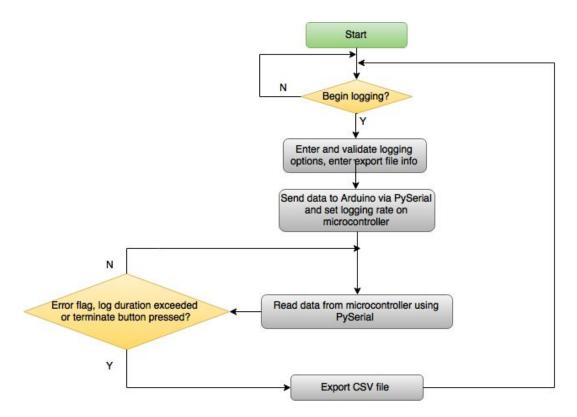
#### Overview

- 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

## Review of GANTT Chart

	Project															
	(Gantt Chart)															
Week	1	2	3	4	5	6	7		Spring Break	9	10	11	12	13	14	15
Date	1/25/2016	2/1/2016	2/8/2016	2/15/2016	2/22/2016	2/29/2016	3/7/2016	3/14/2016	3/21/2016	3/28/2016	4/4/2016	4/11/2016	4/18/2016	4/25/2016	5/2/2016	5/9/2016
Presentations																
Proposal			8										ÿ	7		
Design Review																
Critical Design Review			*													
Demonstration/Final Presentatio			1													
Training																
Git/GitHub														8		
Arduino/Bare Arduino						, ,			, <u> </u>	k .						
Eagle																
Hardware													7			
Research Options			8						i ji	8						
Access to FabLab/Project Room		T)														
Block Diagram																
Prototyping with just the Arduino		)							l li							<u> </u>
Design PCB		)												3		I I
Print Out PCB																
Test PCB/Verfication			N										4 3			
Refine hardware design			5										1	3		
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Software																
Research GUI building tools																
GUI (Glade)																
Firmware									. 0							
Optimize and debug			g													
			52										2			
System Integration																
		-	E :								-					
Test													2 2			
Software Verification																
Hardware Verfication																
Debug entire system			2										1			
Bananta .																
Reports																
Final Report																

### 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?