

Team Instrumentation PDR Presentation

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Overview

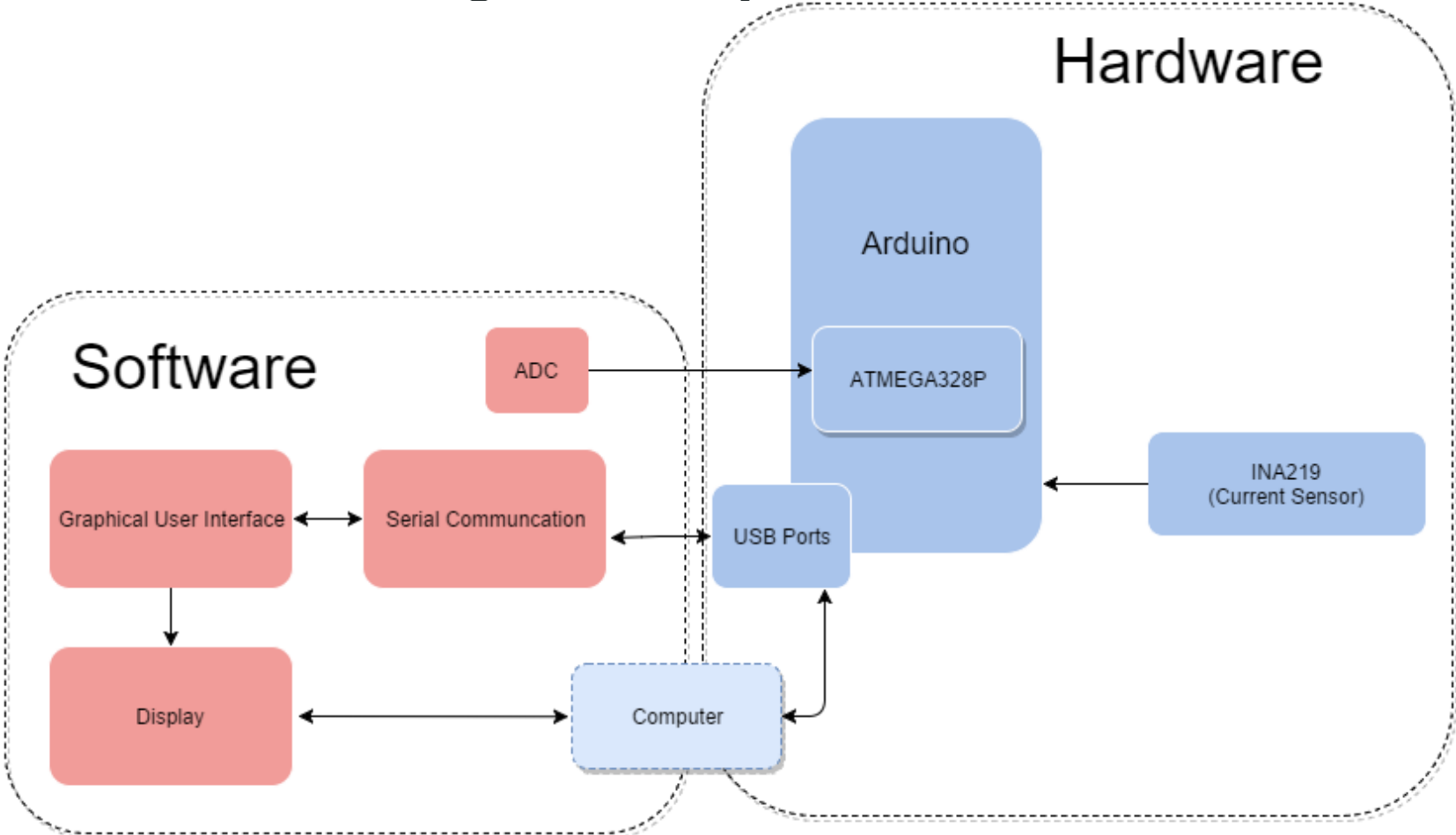
Overall Block Diagram

Problems and Issues

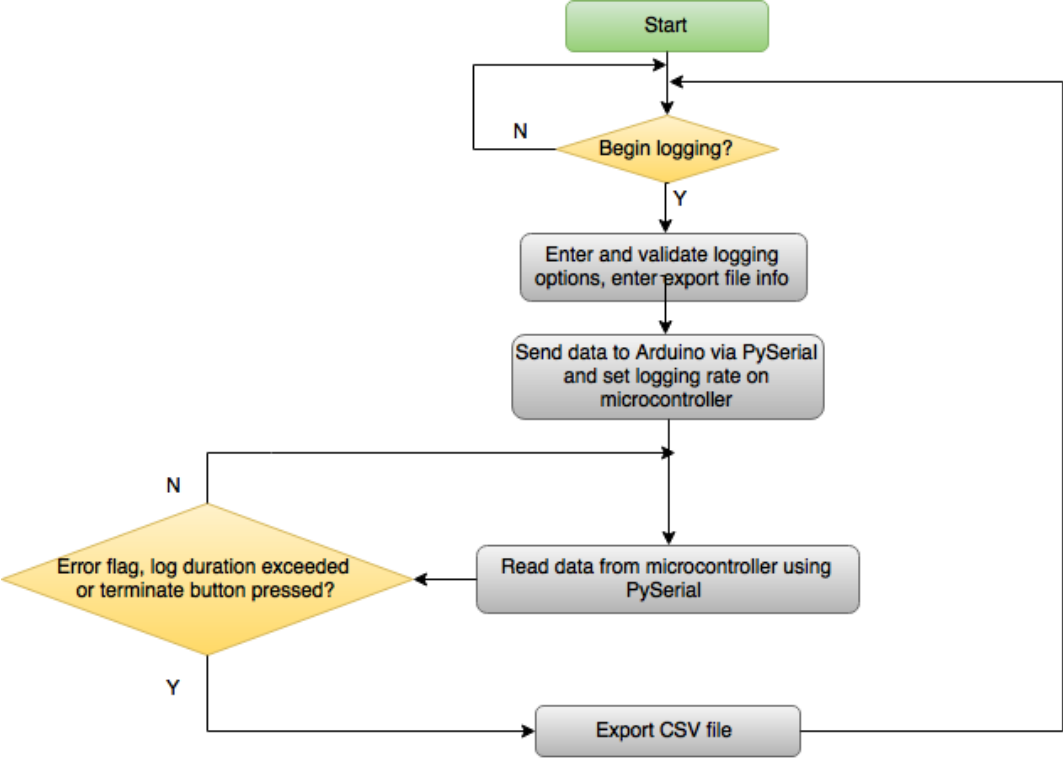
Team's Progress

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?
