

Team: Badam-Osor Khaltar
Paul McCumber
Luke Meszar

GitHub Names: Badam-Osor Khaltar (badamosor)
Paul McCumber (paulmccumber)
Luke Meszar (lukemeszar)

Title: Distributed Data Acquisition and Processing Framework

Description: A data acquisition framework that supports multiple data clients. The system will allow for processing and recording of the acquired data over a network allowing for robustness and parallel development.

Actors: Scientists, Signal Processors, Hardware Engineers

Functionality:

1. Scientists can record data
2. Signal Processors can process data
3. Hardware Engineers can add data sources
4. Signal Processors can process data remotely
5. Scientists can record data remotely
6. Signal Processors can add data processors at runtime
7. Signal Processors can drop data processors at runtime
8. Scientists can add data recorders at runtime.
9. Scientists can drop data recorders at runtime
10. Hardware Engineers can produce runtime status of the data acquisition
11. Signal Processors and Engineers can status the data clients
12. Everyone can control the acquisition.

Stretch Functionality:

1. Runtime control of all data consumers