Architecture Project

- git://github.com/mrerrormessage/n-body-architecture.git
- Planning
    - get GitHub working
    - Implement Algorithm in serial
        - Write makefile
        - Write Tests
        - Write Benchmarks
        - Data structure consideration
        - Consider use of different algorithms
    - Plan for parallel implementations
        - Consider how work should be parallelized
        - Write spec. for how this should work
- MPI
    - Learn MPI
        - Download
        - Write "Hello, World"
        - Write makefile
        - Write Unit tests for Algorithm
    - Plan
        - Consider how multiple processors should interact with data and with each other
        - Draw up spec to show this
    - Implement
        - Write Code
        - Compile
        - Test
    - Write-about
        - Disassembly
        - Benchmark!

- CUDA
  - Learn CUDA
    - Download CUDA (or find a way to access it)
    - Write "Hello, world" (or equivalent
    - Write makefile
    - Write unit tests
  - Plan
    - Consider how CUDA can be used most effectively
    - Draw up spec to show this
  - Implement
    - Write code
    - Compile
    - Test
  - Write-about
    - Coding experience
    - Disassembly
    - Benchmark
- Writing
  - Write intro/abstract
  - Spend a bit of time talking about MPI & CUDA, how different paradigms work with implementation
- AP: Serial Algorithm finished writing
- AP: All "Planning finished"
- AP: MPI Learning and planning finished
- AP: MPI implementation finished
- AP: MPI write-about finished
- AP: "Learn CUDA" and CUDA Planning finished
- AP:CUDA Coding
- AP:CUDA Writeup
- AP:Benchmarking
- AP- rough draft must be finished

- [ ] AP:Revise Paper and finalize
- [ ] Architecture Project Due