**Industrial Monitoring System Project Plan/Schedule**

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**Milestones:**

* **Nov. 16/12:** 
  + Project Plan/Schedule
  + Project Status Report
  + Prototype for transmission and reception of a digital bit stream through fiber
* **Nov. 23/12**
  + Project Status Report
  + Implementation of Time Division Multiplexed frames which include the sensor data from the student-built sensor interfaces
  + Demonstrate functionality of frame transmission on a scope
* **Nov. 30/12**
  + Project Status Report
  + Implementation and demonstration of Manchester encoding hardware
  + Provide documentation for the frame removal and sensor display system to be delivered next week
  + Document testing plans for system reliability
* **Dec. 7/12**
  + Project Status Report
  + Demonstrate working system prototype (bonus if teams can transmit to other teams receive end)
  + Submit project verification report describing testing/test results/project success/any changes made to original specifications
  + Will have characterized the WDM setup and measure losses through the system to create a link budget (May be done outside of group teams)

**Scheduled work periods (week of):**

Please note: After the first week or so, we decided not to post exact division of project labour as we do not know what each task fully entails and who would be best suited to it. We will update the status report weekly with who will be working on each task, but we expect that the majority of tasks will be done collaboratively instead of individually.

* **Nov. 16/12** 
  + Wednesday
    - Work as a team to create a Project Plan/Schedule
  + Friday
    - Finish up fiber link system
    - Test transmission and reception over fiber system
* **Nov. 23/12** 
  + Monday
    - Plan implementation of TDM
  + Wednesday
    - Start implementation of TDM frames
  + Friday
    - Finish and test TDM implementation
    - Write status report
* **Nov. 30/12**
  + Monday
    - Create test plans for system reliability
  + Wednesday
    - Implement Manchester encoding hardware
    - Document frame removal and sensor display system
  + Friday
    - Finish and test hardware implementation
    - Write status report
* **Dec. 7**
  + Monday
    - Characterized the WDM setup and measure losses through the system to create a link budget
  + Wednesday
    - Create project verification report
    - Work with other project teams to confirm intersystem compatibility
  + Friday
    - Debug and test prototype system
    - Write status report