

D009 – 9

To: Senior Management
From: Senior Design Class
Date: April 7, 2008
Subject: Weekly Status Letter

Tasks Completed Last Week

The most critical task completed last week was the detailed testing of the Printed Circuit Board. First, a board test plan was created, which was used as a guideline for testing the PCB. The power sections, the sensor sections, the switch sections and the rail sections were individually tested and documented in detail. The PCB layout of the second batches of the boards is almost completed, and is scheduled to be sent out for fabrication by 3pm, Monday April 7, 2008. In the software implementation side, the Maintenance GUI and logic were coded this past week. The API was completed with the successful implementation of the BuilderDecoder class with the CRC functionality. All the API classes as well as the Maintenance Interface was thoroughly tested and documented. All the sub-system level test results were documented in a Quality Assurance (QA) Audit Report. A User Manual, which has detailed steps for the correct and easy operation of the LART CS08 system was completed as well. In addition, the Final Acceptance Test Plan document was completed this week. The networking group completed the PIC-PIC communication test as well as PIC-sensor test and also documented it in the QA Audit Report. A mechanical drawing for the enclosure for the PCB was also prepared last week.

Tasks to Be Completed This Week

The second batch of the board design will be sent out for fabrication on Monday, April 7, 2008. The demo logic for the Automatic control will be completed and tested this week. The mechanical design for the enclosure, once approved should be sent out for construction. Another crucial task for this week will be integrating the Front End GUI with the PIC and the low-level circuitry. This will include debugging the communication issues and system-level testing.

Tasks Not Completed Last Week

The project website has not been updated with the project documents past March 24. It needs to be updated with the new status letters, labor hours, and the QA Audit Report document. The software logic for the Demo Application was not completed last week. It is rescheduled to be completed this week. The detailed API programming document was not completed last week and needs to be completed this week.