

Liquid Controller

Client: *Ian Bird, Ph.D*

Team Members:

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Problem Statement:

Currently, reagents are added manually when testing cell signal functioning under a microscope. This leads to problems regarding accuracy of timing and amount. To resolve this issue, an automatic system is desired. This system will use pumps controlled by a computer interface to precisely deliver required reagents.

Last Week's Goals

- Mid-semester presentation
- Mid-semester report

Summary of Accomplishments

- Presented project
- Wrote report
- Turned in notebooks
- Updated PDS
- Ordered power relay board NI SC-2062 (from National Instruments, www.ni.com)

This Week's Goals

- Continue programming
- Order/collect parts for valve panel, including ring stand attachment and aluminum sheet
- Test valves, LabJack interface, Power Relay for exact voltages and loadings

Project Difficulties

- Printing report in LabVIEW program. Can be done, but determining how to cumulatively print out so table organized by timings has been proven difficult due to the ordering of execution of LabVIEW case and loop structures.

