I. Summary of this week

- Revised and submitted final project plan
- Turned in senior design notebooks for review
- Discussed several possible methods for calibration
  - Corners or 90 degree angles
  - A flat plate of known dimensions
- Performed research on the IL-300 sensor
  - Circuit diagrams
  - Operational range
  - Compatibility
- Created electrical schematics for the sensor system using AutoCAD

II. Overview of next week

- Meeting with Olivera Notaros on Monday (5:00 PM)
- Meeting with Dan Spieker on Friday (1:00 PM)
- Discuss other options for calibration routines
- Mount the sensor on a robot
- Wire the sensor into the robotic system
- Do initial power and output tests on the sensor

III. Team meetings and project work next week (09/29 - 10/03)

- Monday: 5:00-7:00 @ CSU
- Wednesday: 5:00-7:00 @ CSU
- Friday: 1:00 - 5:00 @ Wolf

IV. Upcoming deadlines and deliverables

- Wire and mount sensor - 10/03

V. Comments

The team spent several hours going over user's manuals, and technical data sheets for the Keyence IL-300 sensor. We determined that we were missing an important part of the system, the amplifier. This device allows the user to configure and communicate with the IL-300 sensor. Hopefully we can get this part within the next week so we can begin to integrate the sensor into a robotic system. With all of the information we obtained, we were able to create an electrical schematic in AutoCAD of the sensor and its integration into a robotic system. We have several meetings next week with advisors and mentors, as well as more research to do on the sensor/amplifier. Friday will be dedicated to installing the sensor if we have all of the necessary parts in time. We also plan to continue discussing ideas for sensor calibration and to eventually create a chart for all of the alternatives and the respective risks and outcomes of each possible routine.

- Kevin B.