

Senior Design Project P12371: Nanomanipulator Design

Minutes for group meeting held on 1/23/2012

Members Present

Jackie Bastardi, Rob Hughes, Brad Ling and Sabine Loebner

Meeting Began at 7:00pm and was held in the senior design center; Rob Hughes recorded the minutes

Project Planning

First order of business was to identify task for the upcoming week constituent to the competition of detailed design. For each project role the following tasks where identified and taken as action items for completion:

Sabine (Computer Control) and Brad Ling (System Integration)

- Talk to Paralex motor representatives to identify how to program and other concerns on the package
- Identify other motor control options and packages
- Research micro stepping and how to implement micro stepping

Jackie and Brad Olan (Actuators)

- Complete preliminary layout for hydraulic system
- Finalize Ram area selection
- Identify purchasable components for manipulator assembly

Rob (Shuttle/Screw)

- Look at errors in lead screws
- Look at system error propagation
- Complete preliminary layout for shuttle/screw assembly

Due date for all actionable items is COB Friday 1/27/2012 with a status update on Wednesday 1/25/2012.

Meeting Adjourned at 7:45 PM