

Positioning device for ophthalmic scanning laser systems

Team: “Ocular Imaging” Team

Client: Carol Rasmussen

Advisor: Professor Tom Yen

Team Members: Daniel Frost (Team Leader, BWIG)

William Stanford (Communicator, BSAC)

January 31 to February 5

Last Week’s Goals

- Meet with client to establish goals.
- Devise an experiment that will test the effectiveness of our design.
- Find a cost effective yet useful motor and joystick for our positioning table.

Summary of Accomplishments

- Met with client and told her about our plans. She was pleased that we are planning to motorize the table and add a joystick.
- Got client approval to work with imaging device at UW hospital.
- Brainstormed an experiment involving timing how long it takes to get the imaging device to locate a specific point, which will tell how much time our design saves.
- Found a motor and joystick that will both most likely work for our table. We are now waiting on a response from McMaster-Carr to see if they think the motor will be adequate.

This Week’s Goals

- Hear back from McMaster-Carr about the motor/joystick.
- Purchase the motor/joystick.
- Additional planning of motor implication and experiment.

Project Difficulties

- None

Activities

- 1/31 – Team/advisor meeting. Looked up parts online at McMaster-Carr. ~1.5 hr. each
- 2/3 – Met with client and discussed our plans. ~1 hr. each

Project Schedule

Preliminary Project Schedule	
Dates	Activities
Jan. 23-30	Form team roles and contact client. Individual research on mechanizing design.
Jan. 31 – Feb. 5	Client meeting. Contacted McMaster-Carr about motor/joystick and planned experiment.

Expenses

- **None**