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)

February 27 to March 5

Last Week's Goals

- Order joystick.
- Midsemester presentation preparation.

Summary of Accomplishments

- Decided to wait to order joystick until we have motors and know they work.
- Midsemester presentation preparation.

This Week's Goals

- Give midsemester presentation.
- Receive motors and motor controllers and set them up.

Project Difficulties

- **None**

Activities

- 3/3 – Advisor Meeting ~20 min. each
- 3/4 – Midsemester powerpoint ~1 hr. each
- 3/5 – Update website, finish powerpoint. ~1.5 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.
Feb. 6 – Feb. 12	Got information on joystick and came up with initial plan for rotating mechanism.
Feb. 13-Feb. 19	Found more suitable motors and joystick.
Feb. 20-Feb. 26	Found motors powerful enough to work and ordered them. Also ordered motor controllers and mounting brackets.
Feb. 27-Mar. 5	Decided to wait on joystick until motors are working. Midsemester preparation.

Expenses

- **Motors Trossen Robotics** MP-36016-385 $37.50 x3 - $112.50
- **Motor Mounts Trossen Robotics** M-800-PB-S3751-BB $10.00 x3 - $30.00
- **Motor Controllers Trossen Robotics** C-100-DC-BB-0518 $46.50 x3 - $139.50

Total - $282.00