

Project progress presented to Dr. Oman

- T-Slot frame with cut polycarbonate tubing and attached L-brackets
 - Contact: Jeremy Cook for reserving time/coding for annealing process
- Reduction of bracket-T-slot tolerance by use of press fit aluminum inserts
- Reaction torque transducer with visual references of operation
- First 3-D printed Transducer-Motor bracket prototype
- DC Variable load
- All parts of the project are ordered and are on the way.
 - Power supply is shipping from China, will find means of testing before arrival

Action Items for Hardware Review 2

- Arduino coding:
 - Test speed control with motor and mosfet transistors
 - Install heatsinks / fan to cool test mosfet
 - DAQ from torque transducer
- Redesign Transducer-Motor bracket prototype: correct dimensions & improve aesthetics
 - Design for dual purpose to prevent accidental tweaks during motor swap
- Shaft coupler linearity and dimensions
 - Find solution based on improved shaft linearity tolerances
 - Step down coupler vs step down + coupler
- Machine holes in L-brackets on CNC
 - Write code & perform machining
- Anneal polycarbonate tubing & reposition thumb screws
- Install emergency stop in electrical circuit