* 3.2 Angle definition images need to be modified
  + Figure 14: Make '+' signs bigger
* 3.4 Home position needs to be expanded
  + connect to later section on design guidelines (which also needs writing)
* 3.6.1 Time derivative of a transformation matrix need to put the math here which shows that we need the instantaneous positions
* ~~4.2.2.1 – needs reference to shigley’s added~~
* Chapter 4 reorganization
  + 4.1 state of previous system
  + 4.2 Implemented Design
  + 4.3 Design Guidelines
* 4.2 implemented design
  + ~~Lead screw (acme bs ball screw)~~
  + 4.2.3 Bearings and coupler
* 4.3 design guidelines section needs lots of work
  + 4.3.1 Bearings
    - do simple fbd on each spot that needs bearings
    - just to show what forces it will see, not with numbers
  + Geometry considerations
    - Singularity Points
    - Center of Mass
    - Minimum Leg Lengths
* 4.3 Electrical Design
  + whole section needs love. not even sure where to go with it
* 5.2.1.2 Need to generate plot of commanded angle vs cmd-actual (error at each commanded point)
  + Commanded angle vs (command minus actual)
  + Plot made in Altitude Relative Measure Calculations.xlsx but not yet added to doc
    - Not sure on error bars for it?
* 5.2.2 need the results of the velocity testing
* 5.2.4 wobble section is empty
* All testing needs to have conclusions drawn
* 6.0 Conclusion needs to be written
  + here is what I did
  + here are the results
  + here is how it can be improved
* Appendix A Need to generate doxygen manual
  + need to make sure code is in correct format
* Appendix B Need to be Matlab Code with instructions
* Appendix C Need to output drawings of any parts I made
  + Motor Adapter Plate
  + Motor adapter spacer
  + Updated shaft couplers
  + 8020 frame
* modify matlab program to accept various physical starting positions and desired angle
  + center of mass within reasonable boundaries
  + actuator not perpindicular to base plate (within a variable angle)
  + test each point with image rotation=0 and +/- variable angle
  + test leg lengths are valid
* Future investigations type thing
  + Lower joint assembly non-parallel to base plate to minimize likelihood of singularity
* Limitations of current/future system
  + Numeric for current system
  + Future:
    - Only reach a limited area of sky (alt az)
    - Maximum exists for length of tracking due to limit on image rotation

Requires computer lab

Non-writing