

Solar Tracking Progress Presentation

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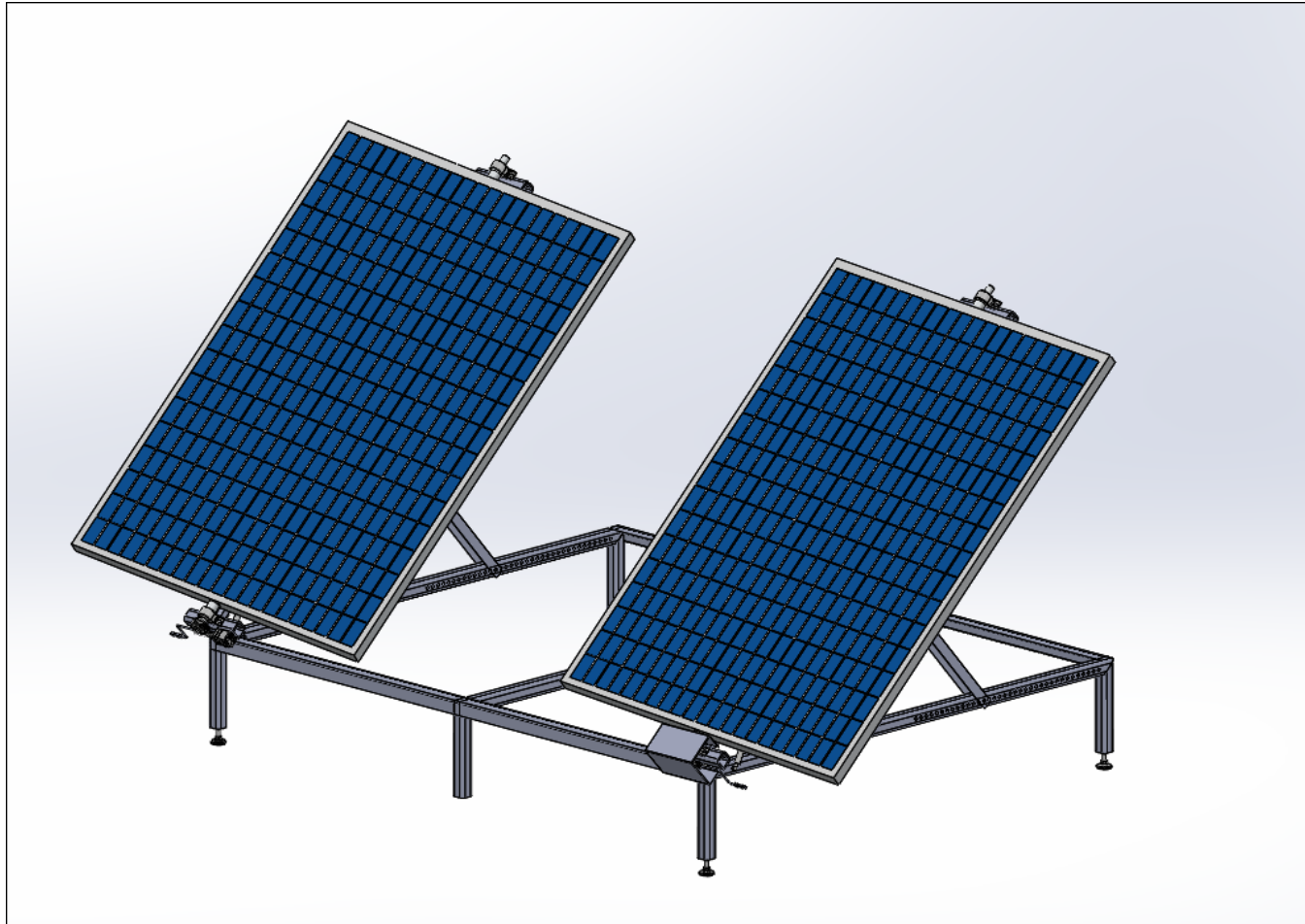
Overview

- Introduction
- Design Progress
- Problems we ran into
- Gantt Chart
- Conclusion

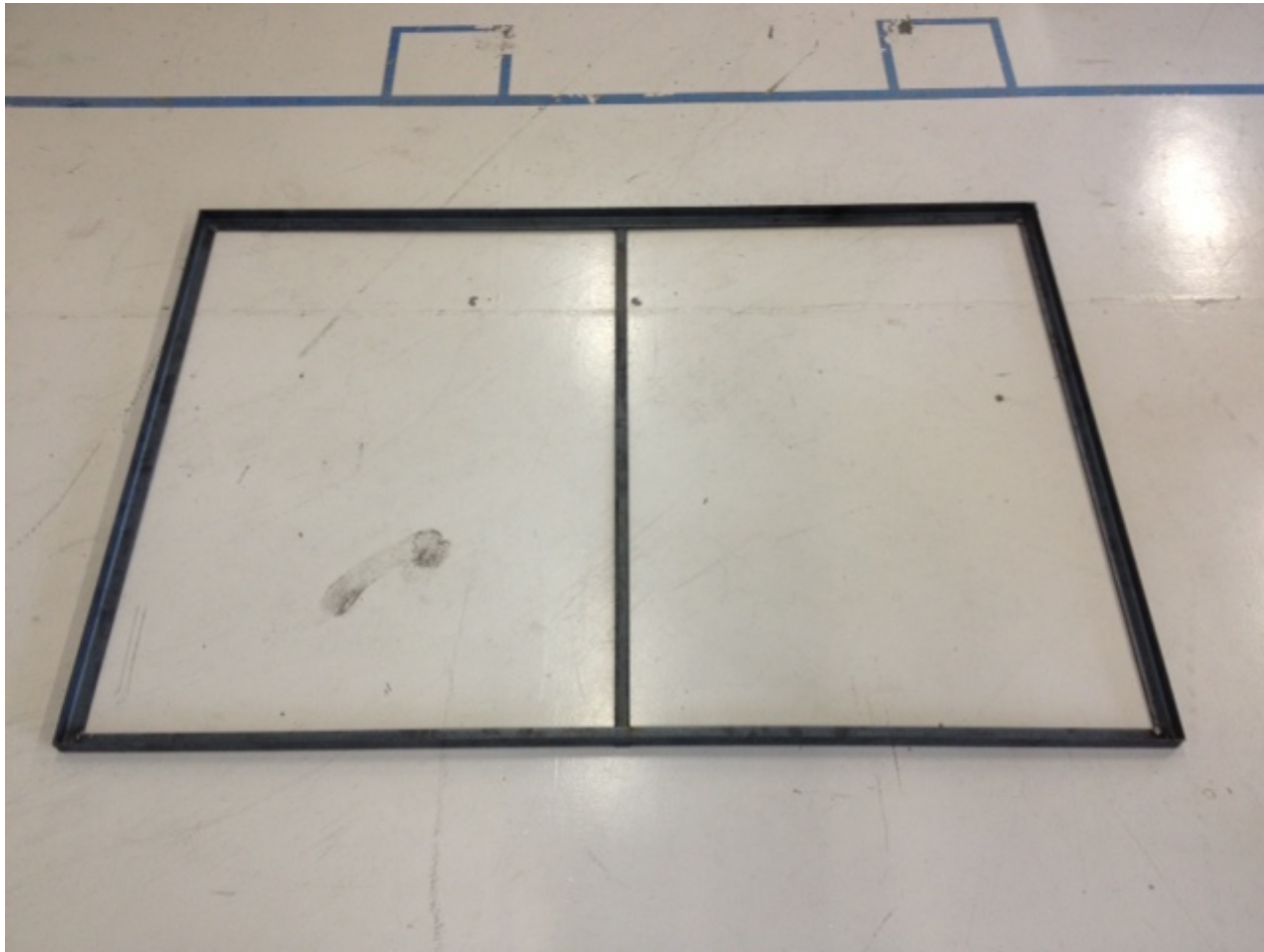
Project Introduction

- Need
 - Current solar tracking systems are intimidating to students
- Objective
 - Design and build a system that enables students to experience the fundamentals of solar tracking systems
- Sponsor
 - Dr. Tom Acker
- Testing Environment
 - Will be tested using fixed solar panels at solar shack

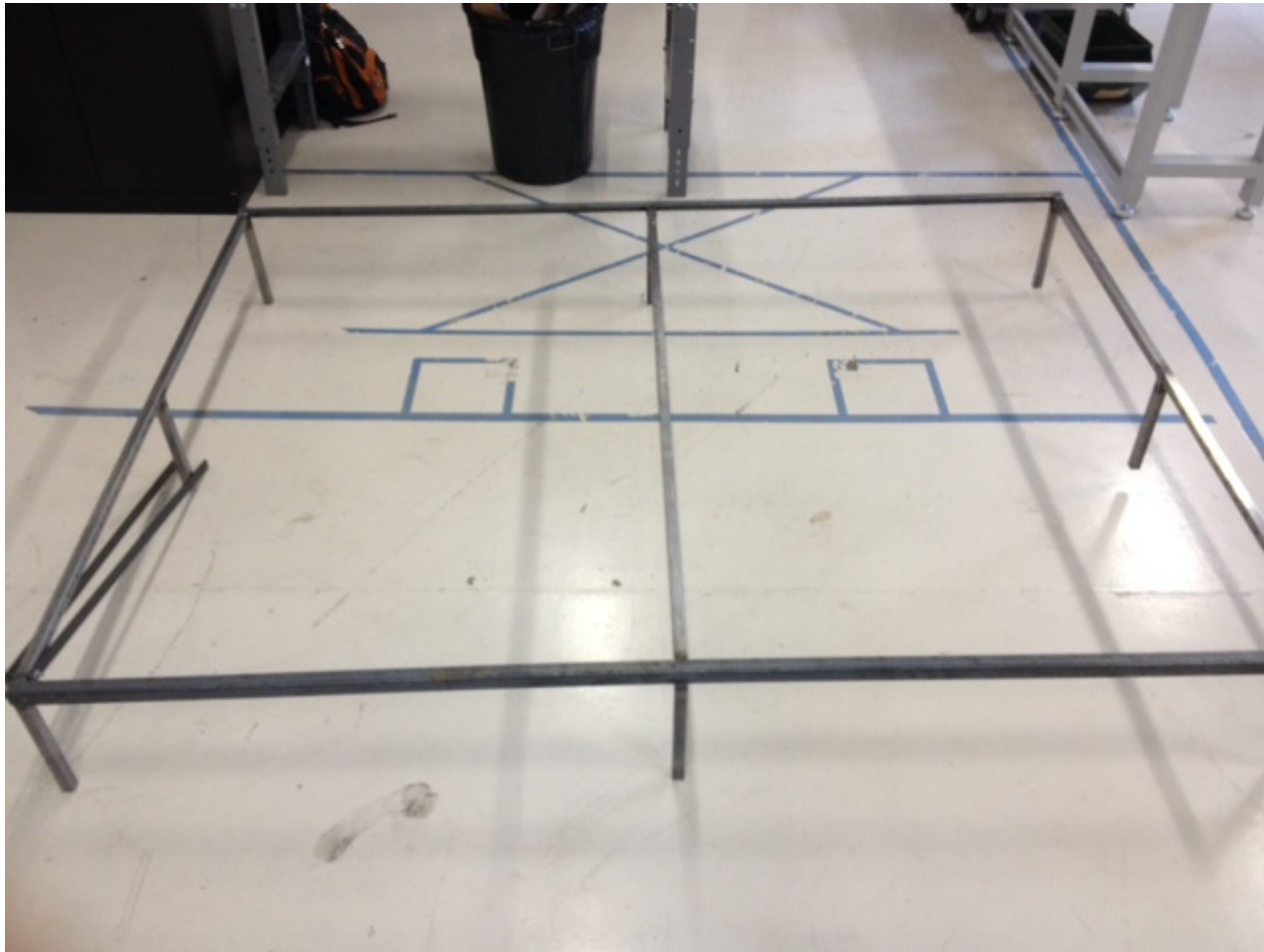
Final Design



Solar Panel Frame Progress



Bottom Support Progress



Pivot Holes Drilled



Pivot point



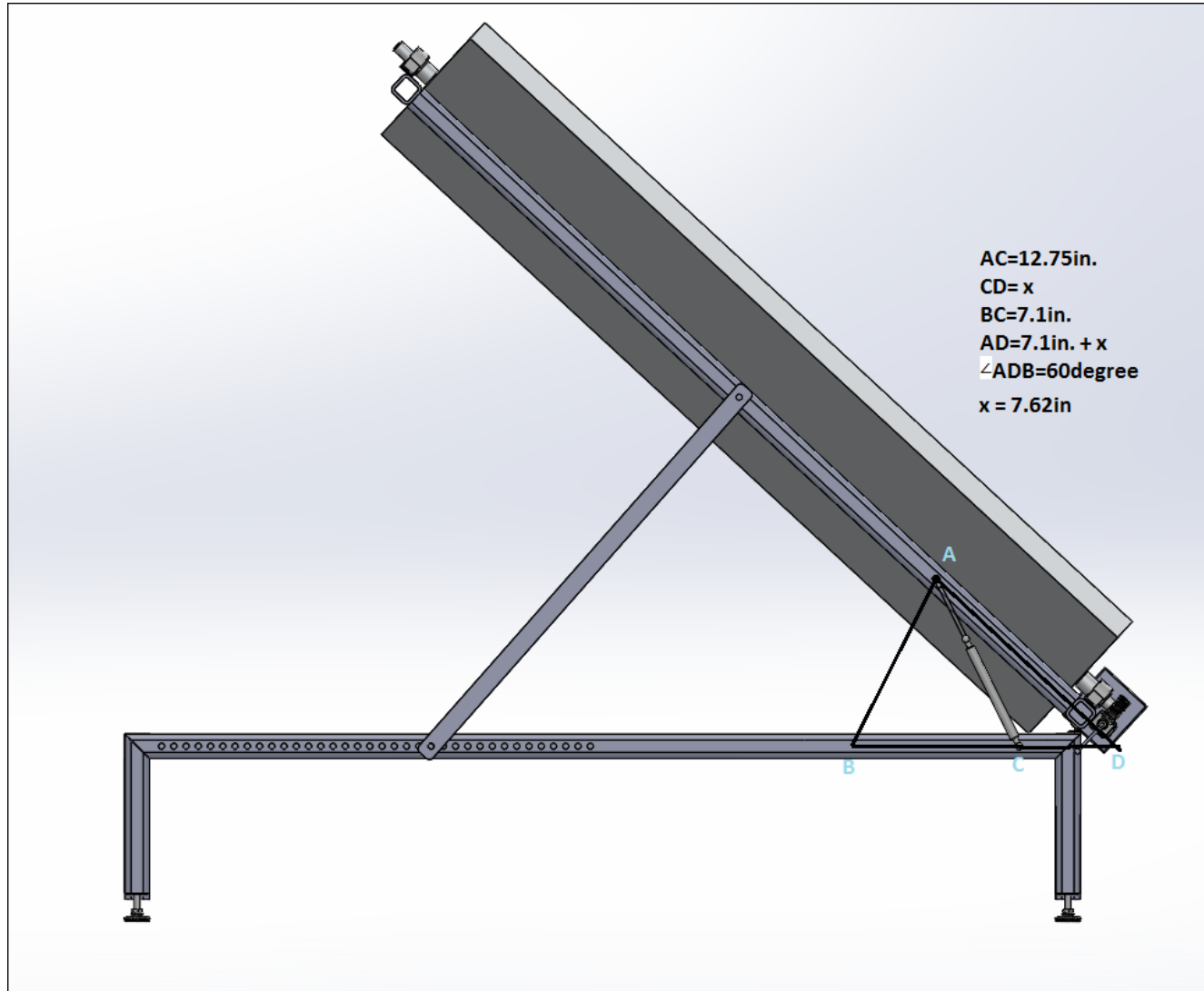
Worm Gears and Shafts



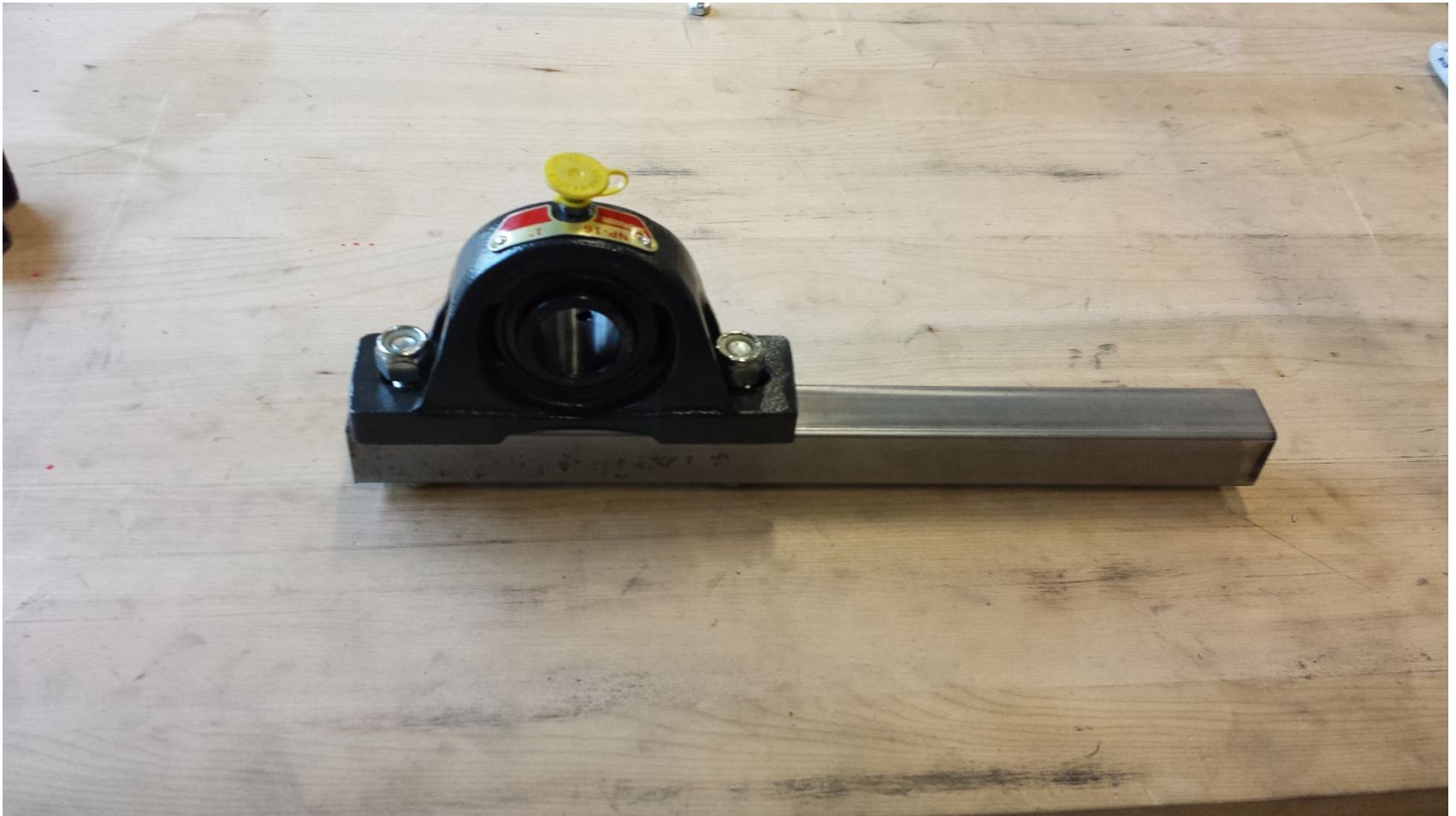
Hydraulic Stabilizer



Hydraulic Installation



Mounted Bearing



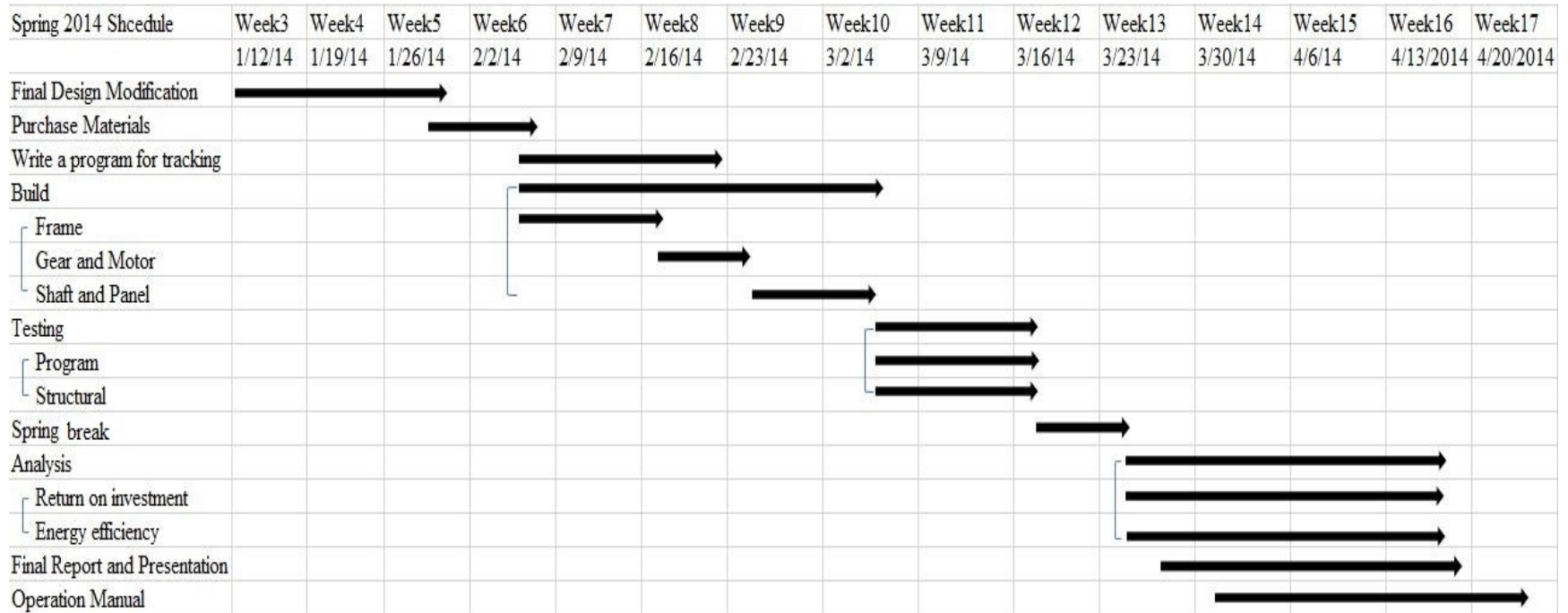
Adjustable feet cut and ready to attach



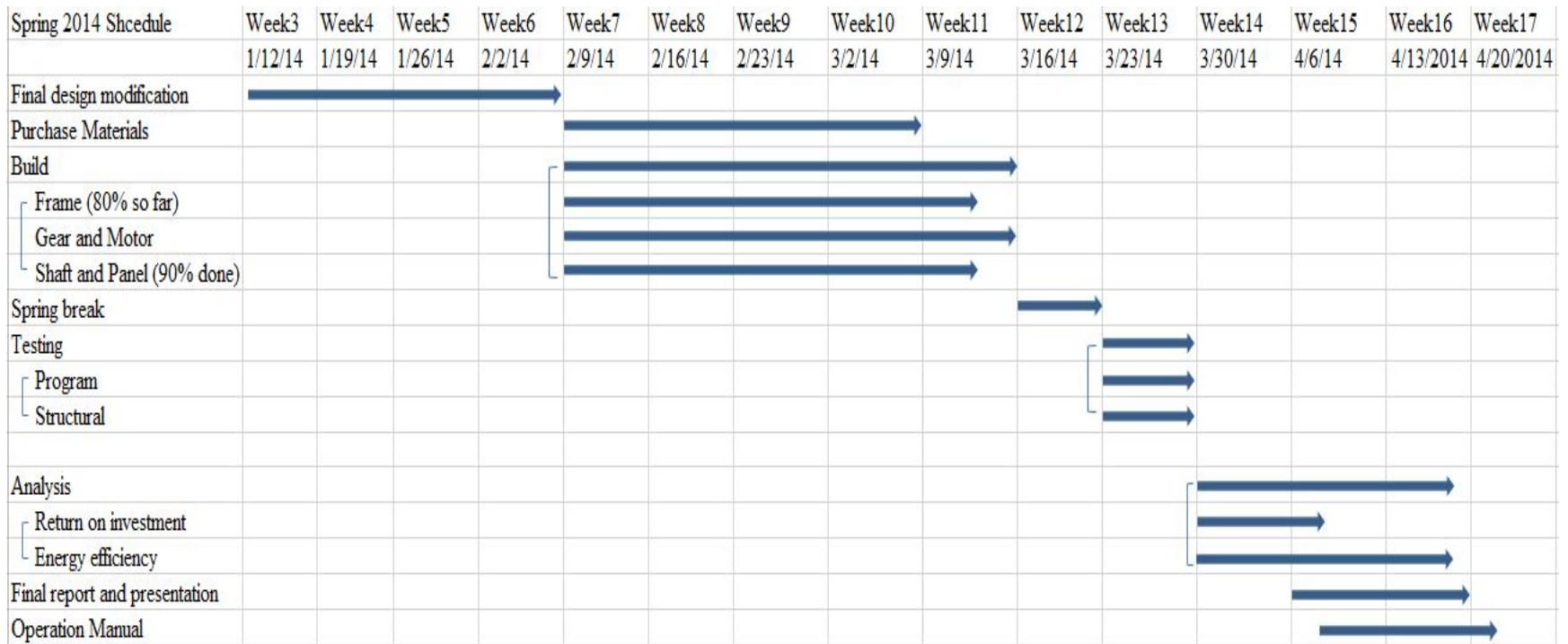
Problems ahead

- Shafts not welded yet due to questions about gear and bearing spacing.
- Bearings and hinges not attached yet due to motor placement questions.
- Currently wondering how to move the entire system to the shack.

Previous Gantt chart



Updated Gantt Chart



Conclusion

- Covered the project needs, objective, sponsor and testing environment
- Overview of modification final design
- Design fulfilled the requirements approved by client and instructor
- 90% of the design and build progress done
- Updated Gantt Chart
- The mistakes we made and problems we met

Questions