

Fabrication Plan

Plan	Scheduled Time	Actual Time
Review	Week 1	Week 1
Review and improve design	Week 2	Week 2 - 3
Order Parts	Week 2	Week 2
Al Casing	Week 3	Week 3 - 4
Flexure	Week 4	Week 4
Cu Fixture	Week 5	Week 5
Fe Magnet Fixture	Week 5	Week 5-7
Completed Assembly	Week 6	Week 7

As shown above, the fabrication plan stayed relatively on schedule. The aluminum casing did take longer than anticipated, however because of the scheduling, did not greatly delay the overall fabrication of the prototype.

The biggest struggle with keeping with the fabrication target deadlines was seen through manufacturing the iron magnet fixture. The start time was delayed from incorrect machine setup. Also, during the taping of the #6-32 holes in the fixtures, two drill taps were lodged into the holes. Two more iron pieces needed to be fabricated. During assembly, one of the screw heads was sheared off causing a screw to be lodged into one of the #6-32 holes of the iron fixtures. Another iron fixture needed to be fabricated.

Partial assembly was completed at the end of week 6, however was delayed until the middle of week 7 due to problems during assembly.

Full assembly and completed fabrication of the prototype was done on Wednesday, February 26th, of week 7. Completed fabrication and assembly gave the following observations:

- Overdamped eddy current damper
- No rubbing
- Prototype weighs over the specified maximum
- Utilized epoxy for copper fixturing
- All other materials used were space-friendly