Project Title: Animal Ventilator

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Problem Statement:
Redesign a MRI-compatible small animal ventilator to deliver a variable volume of hyperpolarized helium and oxygen gas at user-specified frequencies. The device should be compatible with the current system in place.

Restatement of team goals:
1. Calibration and testing of second prototype
   1.a. Volume output
   1.b. Timing
   1.c. Gas mixture
2. Finish Poster
3. Finish final paper

Summary of Team Accomplishments:
1. Finished second generation prototype
2. Finished new LabView programming for second generation prototype
3. Began calibration of new prototype
4. Started final poster
5. Started final paper
Summary of Individual Accomplishment:
1. Ashley and Chris debugged the new programming
2. Micah and Matt worked on the poster and paper

Statement of Team Goals:
1. Lay out calibration procedures
2. Begin and complete calibration
3. Begin testing gas mixture
4. Animal testing

Project Schedule:
1/26-2/16 Finish construction of second generation device.
2/17-2/23 Software testing and modifications made
2/24-3/16 Written development of test procedures and securing test equipment and sites
3/17-4/6 Non-animal testing of device
4/7-4/27 Write-up of results, final paper, and poster
5/4 Deliver

Difficulties:
We had a little trouble getting the new version of LabView to recognize all the drivers and work on the computer, but those are all now worked out and the programming is basically finished.

Activities:
(Since device delivery)
Chris: 4.0 hrs – team meeting, calibration, LabVIEW work
Ashley: 4.0 hrs – team meeting, calibration, LabVIEW work
Matt: 4.0 hrs – team meeting, poster and paper work
Micah: 4.0 hrs - team meeting, poster and paper work, progress report

Team Total Hours for this week: 16 hrs