

## Project Bi- Weekly Progress

**Date: 10/3/2013**

**Project Title:** Automated High Volume Bearing Bore Gage

**Students Names:** Eric Allgeier, Matthew Boler, Kevin Flemming, Seth Norman, Christopher Proffett

**Mentors/ Coordinator/ Sponsor:** Dr. Cartes, Dr. Frank / Joseph Potts / Koyo Bearings

**1. Project Title:** Automated High Volume Bearing Bore Gage

### **2. Project Objectives/tasks Breakdown:**

The objective of this project is to update the software and interface on a bearing bore gage. This device must be user friendly and integrated into a system that monitors multiple gages at once.

### **3. What was accomplished the last two weeks on individual tasks- representative supporting data/ documents**

The code of conduct has been reformed. We have delegated the responsibilities of the group to individual members who will head specific tasks; the assignments can be found in the Code of Conduct. The website has been created and contains information about our project, deliverables, and calendar. To analyze the signal coming from the air transducers we have acquired an oscilloscope. We have begun researching and forming possible solutions to the hardware update. Lastly, we have requested a key to the machine shop.

### **4. Summary of problems encountered and actions taken (and by whom)**

The main problem this week was obtaining an oscilloscope. Due to the short supply in the ME department we were facing the possibility of having to buy one. Luckily, our advisor, Dr. Cartes, has a lab containing oscilloscopes and has allowed us to use it. We also were lacking access to the machine shop where our device is being stored. We have talked to the ME staff and have ordered a key for the room. We have not heard back from our sponsors about touring their facility in order to understand the device. We have continued to reach out.

### **5. Attached Gantt chart modifications and analysis if project is behind schedule and summarize actions planned to overcome the problems)**

No Gantt chart has been created. We are still waiting to hear back from our sponsor about meeting with them for a final list of requirements. We cannot schedule for unknowns and are now in the process of analyzing the physical system.

**6. Work planned for the next period and the person(s) responsible:**

Research air transducers, modules, and circuit boards. Analyze the bearing bore gage with an oscilloscope. Develop several configurations for the electrical system.

**7. Open comments/suggestions (Please feel free to include your private comments):**

**Coordinator/ Instructor assessment report and corrective action**