

## Project Bi- Weekly Progress

**Date: 11/19/2013**

**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**

A bill of materials was constructed as well as an outline of our design. CAD files have been constructed for the components and the component layout. We have received a CPU from Koyo Bearing to be used in the device. We have also received the calibration bearings for use next semester.

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

The dimension files, supplied by the manufacturers for each component, were not to scale. AutoCAD was used to resize each part to the appropriate level in order to create a component layout. The appropriate Koyo Bearing drawing format was obtained for the drawings being created.

Koyo has insisted on the use of an Allen Bradley PLC. Our PLC of choice is not manufactured by Allen Bradley so a new PLC was located.

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

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

Our goal is to finalize the outline of our design and BOM this week. By Friday, we hope to send this proposal to Koyo to review. We will then begin creating a testing platform and mechanical attachments for the electrical components. Once we receive Koyo's approval on the design, we will order parts prior to the semester's end.

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

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