Project Identity:

Orthodontic Wire Mechanical System Tester
Group 7
Week 6
Max Feldman

Work Completed:
Most of the work done this past week was on trying to get the encoder to work properly. The function of the encoder is to provide a feedback from the motor to the computer to relay how far the motor has moved. The use of the encoder would solve our problems as to not knowing the actual position of the motor while it is in motion. While we got the encoder to work properly and we were able to sample the signal and get it into labview, at high speeds we found that labview couldn’t keep up with the pxi box. We are currently still investigating into a solution to this. A sample of what the encoder signal looks like is shown below:

(12us sample of encoder signal)
In the meantime, we did receive our linear slides, and have been able to set them up and get them working properly.

**Future Work:**
A solution to our motor problem needs to be found asap. We need to determine if we are in fact going to use the motor encoder, and if we are how we are going to do this. Also, Mike Holbert is coming up to the lab this coming Monday to make suggestions to changes to our project.

**Project Review:**
We are well on our way. We have received parts and now can get a good amount of work done.

**Hours Worked:** 26