

## **Measurement of tibial translation in dogs with anterior cruciate ligament ruptures**

**Week 4** – September 20<sup>th</sup> to 26<sup>th</sup>

**Team Members:** Graham Bousley – Team Leader  
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### **Summary of Accomplishments:**

- 1 Met with Peter Muir and learned more about canine anatomy and how the device would be used and where it would be put.
- 2 Mike, Alex, and James met with Lacey, a graduate student working with us on the project, to learn more about the Hall Effect sensors and reading the voltage output.
- 3 We had a team meeting and established a problem statement.

### **Team Goals:**

- 1 Meet with Lacey again to work more on the electrical aspect of the project on Friday. We also need to test the Load Cell.

### **Problem Statement:**

- 2 Arthritis in canines often leads to joint degeneration and rupture of the Anterior Cruciate Ligament (ACL). Diagnosis of this condition is often difficult because the current methods used are non-quantitative. The aim of this project is to quantify the amount of tibial translation in a canine's leg caused by a known applied force in order to determine the severity of an ACL rupture. Preliminary parts for a device that can accomplish this have been developed and it is the goal of this team to create and test a working model.



Re-testing															
Presentation															
Progress report															
Website															

**Expenses:**

No expenses this week.