

## **Field Measurement of Running Impacts**

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Team Members: Feest (co-leader)

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April 20 to April 26, 2007

### **Problem Statement**

Design an instrument that measures the impacts of running using tibial acceleration data. The device should combine the use of accelerometers and gyroscopes, which will record data to an incorporated data logger. The device must be easily worn by the user, and the hardware should have the ability to do most of the data processing. This instrument will be used to diagnose stress fractures and other injuries related to running.

### **Last Week's Goals**

- Buy materials for the tester and build
- Buy materials for the leg band and sew
- Continue looking into waist attachment for data logger
- Set up a time to calibrate accelerometer in the client's lab

### **Summary of Accomplishments**

- Purchased materials for the tester and built the device
- Made the leg band
- Set up meeting on Friday to try out tester

### **This Week's Goals**

- Calibrate the accelerometer using the tester we built
- Create the poster
- Split up sections of the paper

### **Project difficulties**

- Products are not coming in from the UK

### **Activities**

- Went shopping for the supplies
- Built the tester and leg band
  
- Amanda-4 hours
- Chelsea-4 hours
- Matt-4 hours
- Lindsey-4 hours
- Nicole-4 hours

