

Field Measurement of Running Impacts

Client: Bryan Heiderscheid, PhD, PT

Team Members: Feest (co-leader)

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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

- Take team picture
- Meet with client and gain more understanding of the project

Summary of Accomplishments

- Took team picture
- Met with client
- Individual background research

This Week's Goals

- Continue background research
- Start PDS
- Set up meeting to go to research park with client and also general client meeting for next week
- Start individual brainstorming for design alternatives

Project difficulties

- Finding proper equipment to meet all goals of the project

Activities

- Everyone in the group did individual background research for about one hour

Expenses

- None to report so far

