University of South Florida

Motion Analysis Laboratory

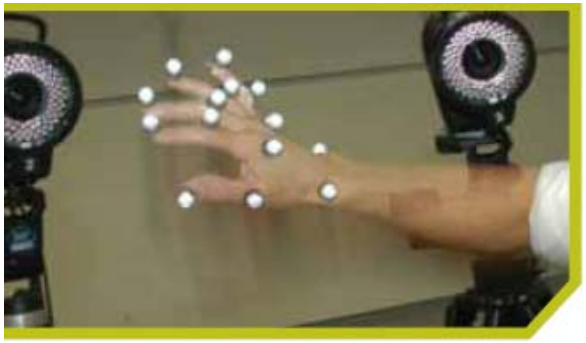
College of Engineering

Mechanical Engineering

Rehabilitation Engineering

College of Medicine

School of Physical Therapy & Rehabilitation Sciences (SPTRS)



Vicon Motion Systems

MOTION

- Teach
  - Study
- Learn
  - Measure
- Analyze
  - Compare

Applications

- Rehabilitation
  - Gait
- Ergonomics
  - Sports
- Human Performance
  - Biomechanics

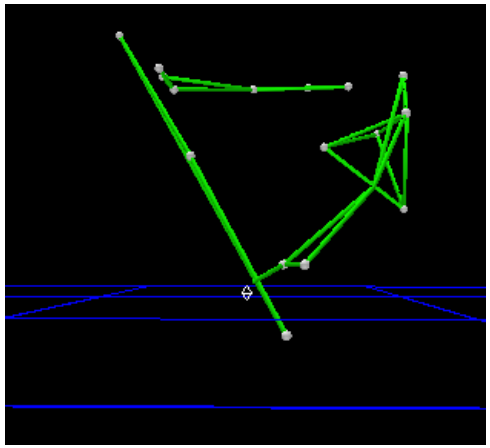
The University of South Florida Motion Analysis Laboratory

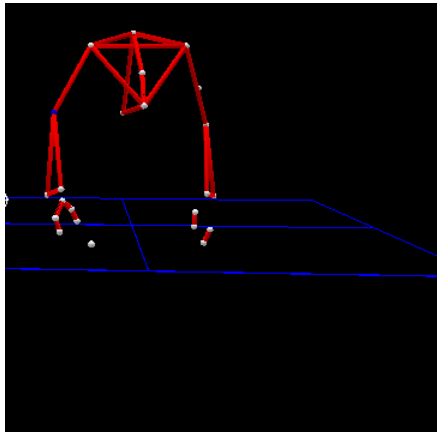
The lab uses an 8-camera Vicon 3D motion capture system. The cameras use infrared lights to detect reflective markers placed on the subject of movement. After a system calibration, any type of movement or motion can be recorded, analyzed and reported.

The applications of this research tool are unlimited and include movements related to sports, medicine, gait, biology, ergonomics, engineering, and animation.

The motion analysis lab could be used as a teaching tool, for student and faculty research projects or to test sports or therapeutic performances.

Currently, the lab is being used in numerous pilot research studies as part of the $1M, Department of Education Grant shared between the SPTRS and College of Engineering entitled “Demonstration Project on Prosthetics and Orthotics”.





Please contact us to learn more about the motion analysis lab or to set up a tour.

CONTACT INFORMATION:

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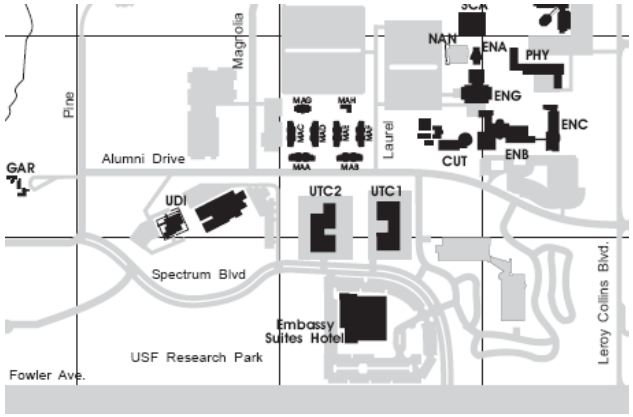

Directions: From Fowler Avenue:

1. Turn North onto Leroy Collins Blvd.
2. Turn West onto Alumni Drive.
3. Turn South (Left) into the 2nd driveway: 3720 Research Park. Room 114.