Research Internship @ IDEA lab

Innovative Design and Art (IDEA) Laboratory at the University of Iowa’s Center for Computer-Aided Design (CCAD) is now seeking a self-motivated and passionate undergraduate research assistant (RA) who wants to be a part of our research project. The project is about detecting, identifying, and analyzing different types of basketball motions using a 6-DOF (= accelerometer and gyroscope) inertial sensing device. The research requires a good understanding of statistics and probability, machine learning, and some basic classical rigid-body dynamics. A background in biomechanics, sports science, computer science, control theory, dynamics, and/or robotics is a definite plus.

A successful candidate will become a part of a cutting-edge research project at the intersection of biomechanics, sports science, and machine learning. The data to be analyzed contain measurements of actual collegiate and professional basketball players in NCAA and NBA. This is an industry-driven project, which can lead to potential connections for future career. The project is supported by the Virtual Soldier Research (VSR) program at CCAD. Further details are listed below:

- Requirements: Good standing in Industrial Engineering, Mechanical Engineering, Biomedical Engineering, Electrical Engineering, Computer/Software Engineering, Computer Science, Statistics, or other relevant programs.
- Optional: Programming language(s) (incl. MATLAB, Python, C/C++, etc.), Courses relevant to Artificial Intelligence, Machine Learning, Big Data Analytics, Dimensionality Reduction, Control Theory, Signal Processing, and/or Computer Vision.
- Start Date: Immediately after the finals week (Mid-May, 2017)
- Hourly Rate: Based on skills and experiences (will be paid higher than the average)
- Work Hours: Can be flexible
- Friendly environment. A PC workstation at a student office in the ERF building will be provided. The work location is close to the recreational center.

Interested students with the listed qualifications are strongly encouraged to contact Prof. Stephen Baek via email: stephen-baek@uiowa.edu.

Find out more about us:
http://www.stephenbaek.com/idealab
https://www.ccad.uiowa.edu

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