

Case Study: Stability Testing



Arley Perez, Project Engineer for Knee and Hip Product Development, Arthrex

Company Profile

Arthrex focuses on minimally invasive orthopaedic product development and advancement of orthopaedic techniques.

The Challenge

Develop a device to measure rotational and anterior/posterior translational stability of injured and contralateral knees. The hardware chosen was two load cells and pulsed DC electromagnetic sensors.

Why LabVIEW

LabVIEW, being a powerful software package compatible with many types of hardware, made it a natural choice. Initial programming was done in-house, but as the project grew in complexity, it was apparent that expert programmers were needed to continue.

Why Sixclear

Arthrex decided and continues to use Sixclear for all of our LabVIEW programming needs because Sixclear has an inherent ability to understand our underlying needs. I value the proactive nature of their suggestions and their high level of competency. Sixclear also takes the time to explain these high level programming concepts in ways that are easily understandable. Most important is their quick turnaround times; tight deadlines have never been a problem for Sixclear. Finally, their pricing is very competitive, which just rounds out the Sixclear package.

Results

A user-friendly software package capable of deployment at numerous hospitals and surgical centers. Software reliability was greatly improved with sound architecture developed by Sixclear to handle the complex software flow required by the medical industry.