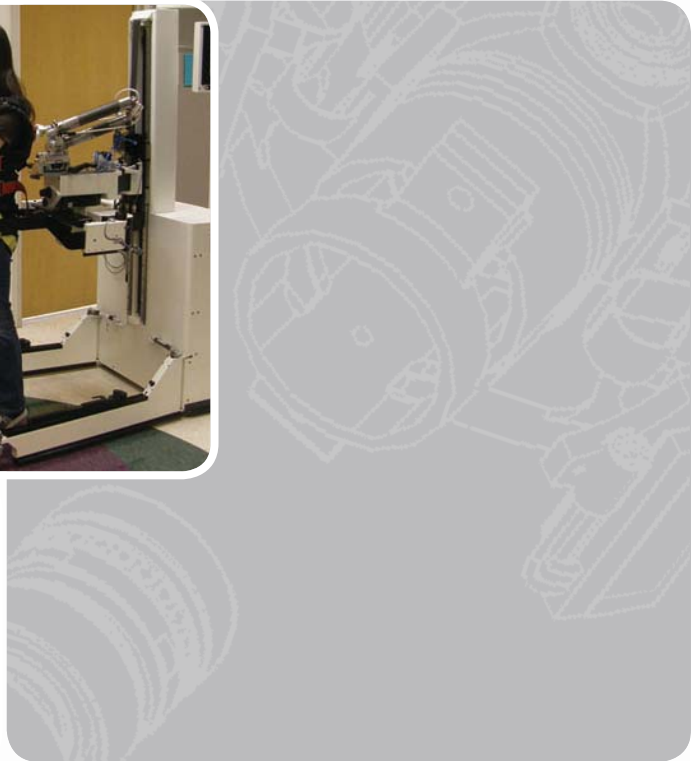
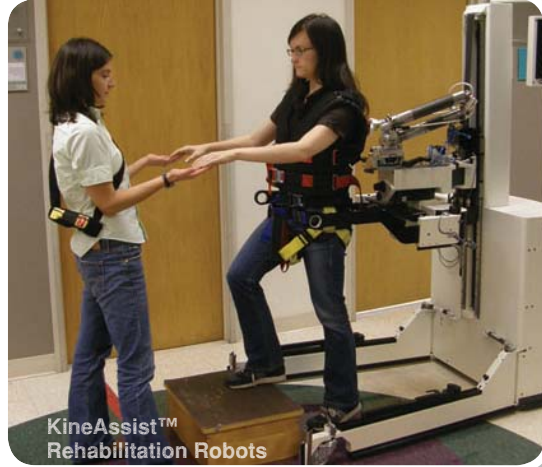


# kīnēadesign

Transforming Concepts to Innovations

R&D partnerships, engineering design and prototype development



Breakthrough “smart” mechatronics-based innovations are transforming many industries. With growing demand for outsourced mechatronic competencies, Kinea Design offers capabilities that give clients a competitive advantage in emerging technological innovations.

At Kinea Design, we are experts in Human Interactive Mechatronics and are known for the industry’s best-in-class customer experience through R&D innovation, IP creation, quality results (on-time & on-budget), and an open, collaborative development process with our clients.

Our in-house team of engineers, clinicians and scientists bring an extraordinary breadth and depth of

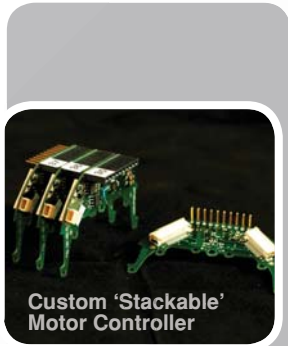
knowledge and expertise to help our clients solve tough problems, increase innovativeness and bridge the gap between theory and practice.

We help clients shorten development cycle times through proven development processes guided by user research methods and disciplined early testing and verification. By following these disciplines we achieve delivery of prototypes that not only meet design requirements, but work the first time, look great and are close to final product.

With small-company agility and a pool of research and development specialists, Kinea Design offers capabilities that give clients a competitive advantage.



2 dof Haptic Tactor



Custom 'Stackable' Motor Controller

At Kinea Design, we are experts in Human Interactive Mechatronics — a fusion of mechanical, electronic, software and control systems engineering.



### Services

- Engineering Design and Prototyping
- On-team Clinical expertise
- R&D Partnerships
- User-oriented Research
- Grant Proposal writing assistance
- Invention and IP documentation
- Product Development

### Specialities

- Mechanical design, prototyping, user-testing
- Electronics and embedded computing
- Sensor development
- State of the art software-driven control systems
- Haptics & Human-Machine physical interface
- Ergonomics and human movement sciences
- Medical and biomedical research instrumentation
- Human-assist robotics (Intelligent Assist devices)
- Prosthetic devices and rehabilitation robotics

### Clients

- Johns Hopkins Applied Physics Lab
- Rehabilitation Institute of Chicago (RIC)
- Methodist Hospital (Houston)
- DEKA Research
- HDT Engineering Services
- Northwestern University
- Meat & Livestock Australia

### Projects involving

- Human/robot collaborative motion
- Human machine interface
- Biomedically oriented projects
- Prosthetics (bionic arm)
- Machines for rehabilitation
- Robotics in medicine and biology
- Haptic interfaces
- Industrial human-assist technology



### Award-Winning Project Portfolio

- DARPA's Revolutionizing Prosthetics 2009 program (participant)
- KineaAssist™ - Walking & Balance Exercise System

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**kineadesign**  
Innovators in Human  
Interactive Mechatronics