

RESNA 2007

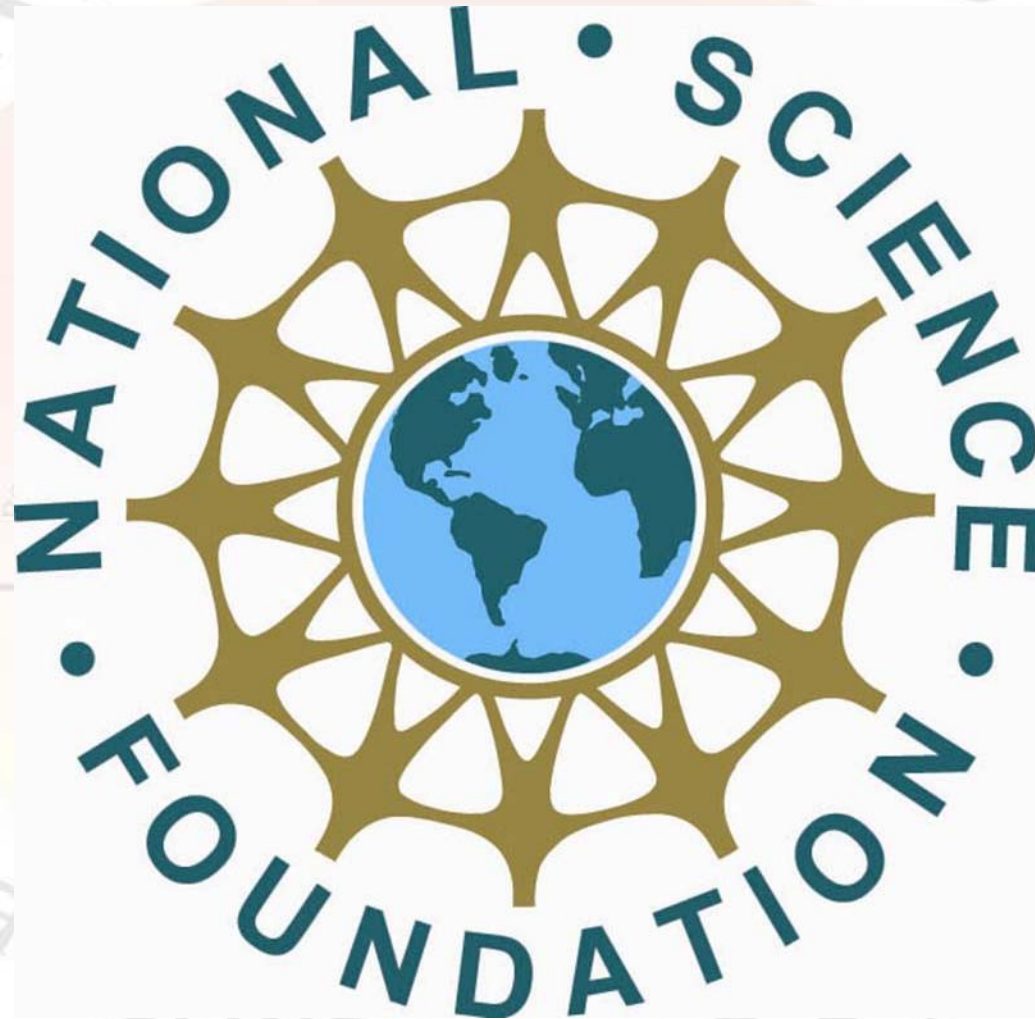
***Student
Design
Competition
2007***

Annual Conference • Phoenix

Student Design Judges

- Mark Novak, BSEE, PE, Co-chair
- Jay K. Martin, PhD, Co-chair
- Robert Van Etten, BSE, ME, ATP
- Maureen Linden, MS, BME
- Doug Gayton, RCA, ATP
- Kirk Siqveland

Funding Sponsor



A Design to Add Body-Powered Functionality to the International Red Cross Above-Elbow Prosthesis

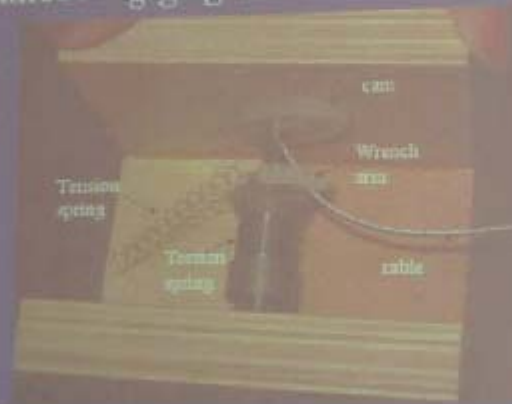
- Sarah E. Huber
 - Nupura Bhise
 - Rebecca Carlisle
 - William J. Richardson
- University of Arkansas
Fayetteville, AR



Prototyping: Locking Mechanism

■ Alternative 2

- Torsion spring grips shaft, rotates cam, and slides the locking pin in/out of the elbow slots to lock/unlock
- Wrench arm is rotated into original position by a tension spring without engaging the shaft and cam



The Adjustable Camber Axle Plate (ACAP): Redesign of a Wheelchair Axle Plate for Rapid Changes in Wheel Camber

- Jay Kothar
- Amit Kausha
- Daniel Ramirez
- Samir Shah

New Jersey Institute of Technology
Newark, NJ



Walker Monitor

- Nancy Du
- Shawn George

Department of Biomedical Engineering
University of North Carolina at Chapel Hill



An Automated Page Turning Device to Assist in Navigating through Reading Materials

- Joshua M. Keena, BS
- Peter B. Backlund, BS
- Hung P. Nguyen, MS
- Bryan M. Sanchez, BS
- Stewart A. Vaculik, MS
- Jeffrey M. Chan, MA, BCBA

The University of Texas at Austin, TX



Adaptable Prosthetic Foot & Ankle Mechanism for Sloped Walking

- Ryan Williams
Northwestern University
Evanston, IL

