

2007 JWOD/JETS NATIONAL ENGINEERING DESIGN CHALLENGE!



2007 National Finalists!



The Easy Count - Gann Academy, Waltham MA

Coach: David Novick

Team: Benjamin Deardorff, Benjamin Jaeger and Oren Mangoubi

The Easy Count is a hands-free, battery powered electronic down counter. The Easy Count records a count with a tilt switch attached to an ear piece activated by head nods. The purpose of this device is to enable an individual with a counting and sequencing disability to count objects required by his/her job while still being able to use his/her hands for the task and keep pace with co-workers.



The Basic Ergonomic Re-attachable Tub (BERT) - Gardner Edgerton High School, Gardner KS

Coach: David Kling

Team: Sally Sisavath, Paul Kiethley, Hela Kawar, Brian Fibelkorn and Kristina Benney

The Basic Ergonomic Re-attachable Tub (BERT), is engineered to assist people in carrying multiple items such as, but not limited to, plates and cups for the purpose of bussing tables. It is composed of an oval-shaped tub, conveniently attached to a customized vest. BERT utilizes a removable liner designed to improve the turn around time of a clean tub.



The Auto Grip and Assisted Motion Booster Seat (AMBS) - Grand Rapids Catholic Central HS, Grand Rapids, MI

Coach: Jeanine Greydanus

Team: Phil Le, Becky Malinowski, Elizabeth Palmer, Elena Buhay and Greg Mancewicz



The Auto Grip is designed to assist individuals who lack full use of their hands including persons with amputated, paralyzed or arthritic hands transferring the required force of one's hand to the wrist instead. It consists of two separate pieces of PVC attached to a grabber. The Assisted Motion Booster Seat (AMBS) alleviates the stress of back pain by allowing an individual to swivel in their seat and gently slide out by angling the seat.

Automatic Retrievable Mechanical Shelving System (ARMSS) - Staples High School, Westport, CT

Coach: Joanne Klouda

Team: Sam Andrew, Nate Fox, Antonella Lisanti, Maurizio Martinovic and Jordan Zarilli

The Automatic Retrievable Mechanical Shelving System (ARMSS) is a unique bookshelf designed for use by people suffering from back pain or confined to a wheelchair. It uses three simple mechanical motions to bring items on any shelf to a height easily reachable for anyone with restricted movement. ARMSS takes up little extra room when compared to a bookshelf of similar capacity and has a multitude of safety and ease-of-use features in place to ensure the well-being and comfort of its users.



Bag Rolling Assistive Device (BRAD) - Wallenpaupack Area High School, Hawley, PA

Coach: Gene Shultz

Team: Kelsi Horan, Ryan McCullough, Charlie Osborn, Kaytlin Roholt, and Luke Swenson



The Bag Rolling Assistive Device (B.R.A.D.) is composed of two parallel metal rods, creating an area into which a sleeping bag can be slipped. The rods are attached to a motor which slowly rolls the sleeping bag. The purpose of this device is to enable an individual with small features and limited strength to effectively roll a sleeping bag.

