

Individualised wheelchair

Skills

- Individual design to fit (Solid Works)
- Designing & delivery of 3D & 2D files for manufacturing
- Testing & Verification in lab & with basketball players
- Leading manufacturing process
- Keyrole project manager for all project participants

Results

- Delivery off all project goals within time
- Presentation at Paralympics
- Bronze medal for basketball players at London Paralympics

Key features

- Design to fit
 - Wheelchair made to fit based on anthropometric data
- Increased power efficiency
 - Lightweight wheelchair
 - increased propulsion efficiency by grip on rim
- Improved manouverability
 - Less rolling friction between surface and tyre

Materials

- Metal aluminium parts
- Plastic parts
- Fabrics

