Team 12: Iron Man!

Running Cart

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The Team

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Outline

- Project definition and scope
  - Project choice
  - Project definition
  - Requirements
  - Customer
- Physical results and testing
- Where We Are, and Where We’re Going
  - Obstacles
  - Accomplishments
- Design norms
- Questions
Project Choice

- Project scope (3 person team)
- Physical prototype feasible
- Project addresses a need
Project Definition

• Create an off-road stroller for a handicapped child
• Light-weight, but strong
• Easily transportable
• Able to travel on tough terrain, e.g. sand, gravel
Customer

- Potential customer identified
- Determine what they need
- Other potential customers
  - 7.6% of adults are practically unable to walk 400m\(^1\)
  - 14% of children have disabilities\(^2\)
Testing

- **Weight**
- **Portability**
  - Collapsed size
  - Time to collapse
- **Durability**
  - Fatigue testing
  - Dynamic load testing
- **Off road capabilities**
  - Pull testing in various materials
Present Situation

- Working on contacting the customer
- Researching similar concepts
- Researching useful components and related patents
Design Norms

- Love
- Caring
- Justice
References


Questions