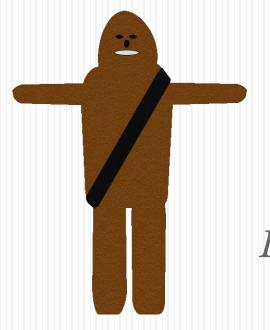
SCC.240 IT FOR CREATIVE INDUSTRIES INNOVATION CHALLENGE GROUP PROJECT

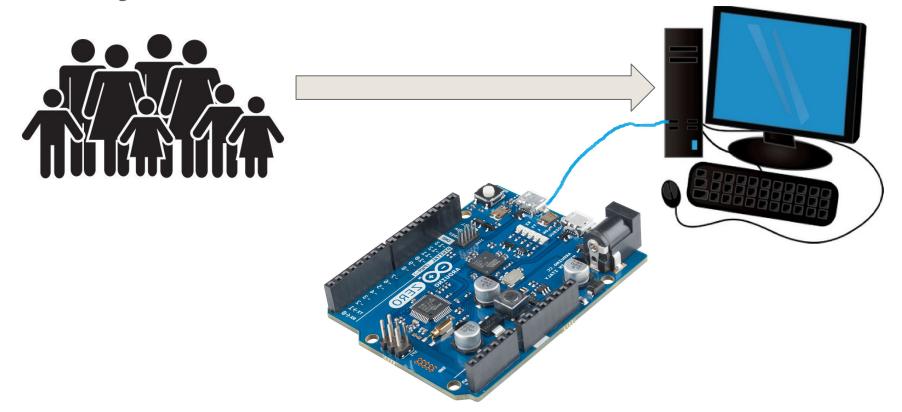


Luke Brown Jake Dunbar Samuel Ibironke

Interactive Scarecrow
Project



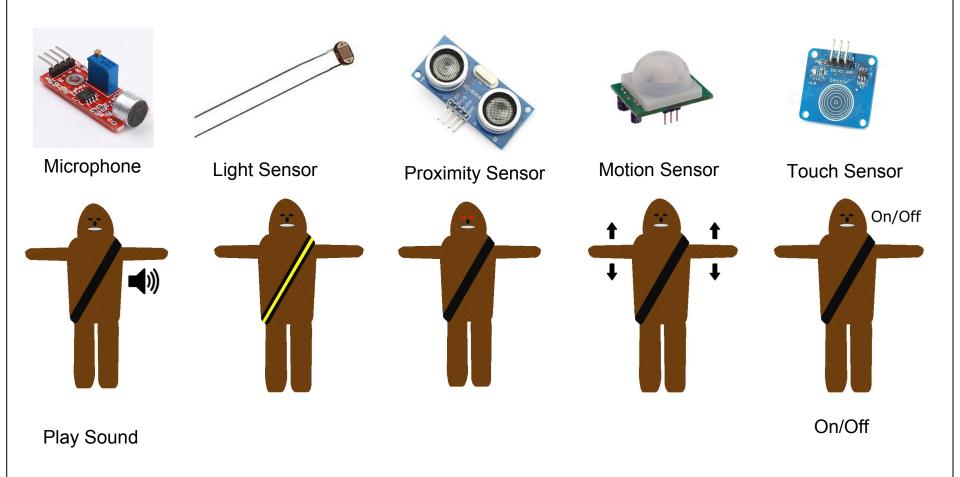
System Overview



Our target user group (families) interact with the scarecrow at a distance. The scarecrow arduino board is connected via USB to the computer, from which the virtual interaction they would see is displayed.

When a technical sensor is triggered, behaviour is seen on the screen.

Technology Overview



Our Development Process

Phase 1

Research

- **Interviews**
- Questionnaire
- Videos/Images
- **Context Mapping**

Phase 2

User **Profiling**

- Children
- **Families**
- Hobbyists
- Animal **Owners**

User Requirements

Technical Requirements

Prototyping

Phase 3

Development

Phase 4

Testing



Interviews



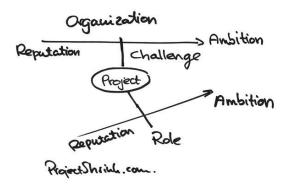




Seeing what others have done



Questionnaire



User Journey Mapping

Families

Interactions

- The interaction must foster good relationships between users
- Long and simple enough interaction to gain the user's attention.
- Must easy for the different users to understand
- Must be about to respond to the user's action

Environment

- Must be used in variety of locations
- System must be hard wearing-weather
- Must be able to accommodated different circumstances.

Safety

- Must be safe for children and take in consideration user situation.
- Must notify the user or user guardian the situation that it may be in.

- System to System
 - The system should know when it's off or on
 - System must be safe for itself.

- System to User
- System should display information to user visually
- System should interact with the user through sound
- System can use mechanical arm to interact with user
- System must be safe for the user to use.

- User to System
 - System need to detect user movement
 - System can hear users sound and use it
 - System should be able to feel the user touch

- System to Environment
- System must be ready intended environment situations
- System must be movable for different situations.

Project theme

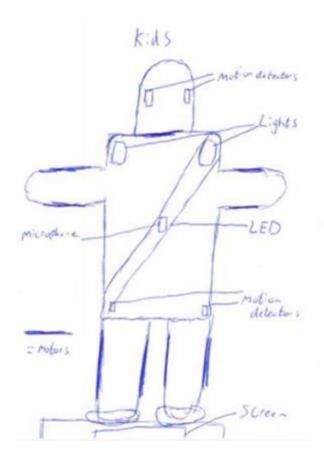


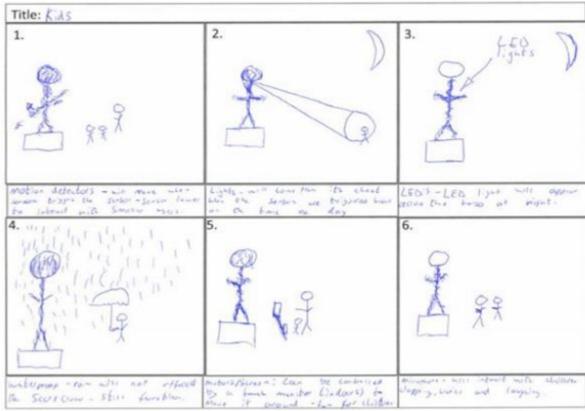






Ideas - Kids





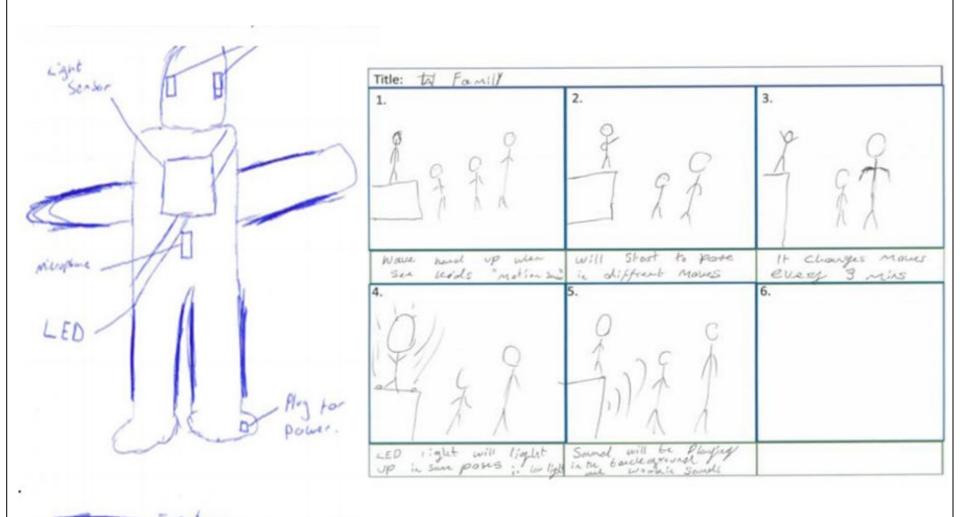
Ideas - Hobbyists

Hobbyists



Title: Ho 664ist		
1.	2. 8	3.
week will be pose with	The Constitut will shoot real to harful lazars	A Screen will Show out the different information about the
4.	5.	6.
Quite about star wers with be said to other		

Ideas - Families



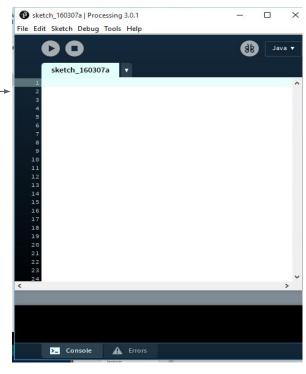
• Implementation - Software

Arduino

sketch_mar07a | Arduino 1.0.6 File Edit Sketch Tools Help sketch_mar07a Serial Connection. Messenger.

- Mechanical
- User Inputs
- Calculations

Processing

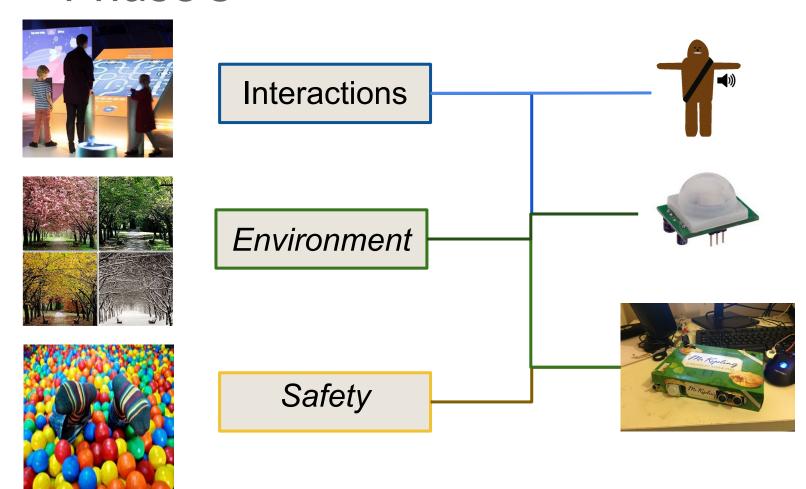


- Animations
- Timing of events
- Scarecrow outputs

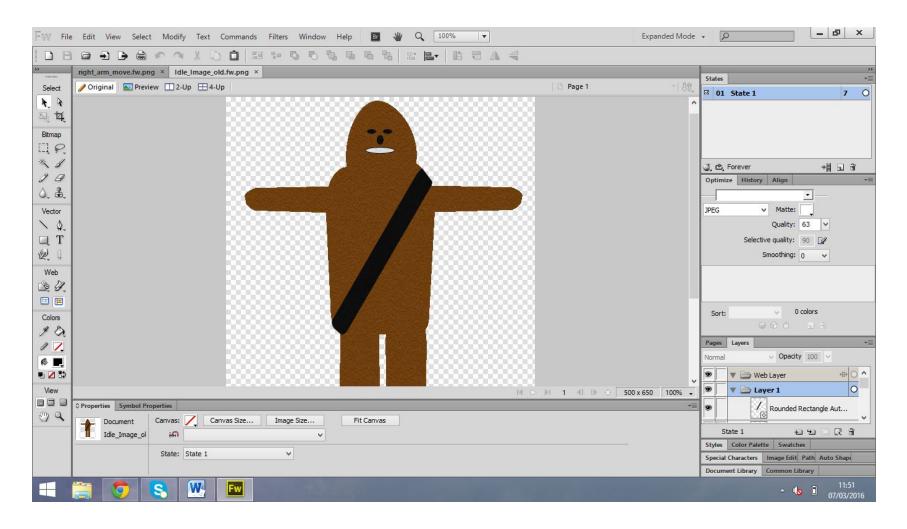
Implementation - Hardware

Implementation - Hardware Ma Kipling
6 BRAMLEY APPLE PIES TECKNET Mr Kipling

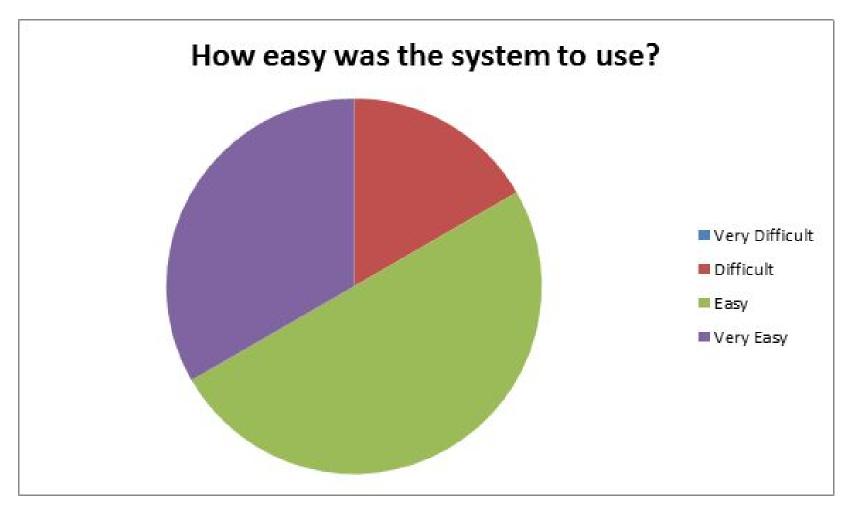
How we met our requirements
 Phase 3



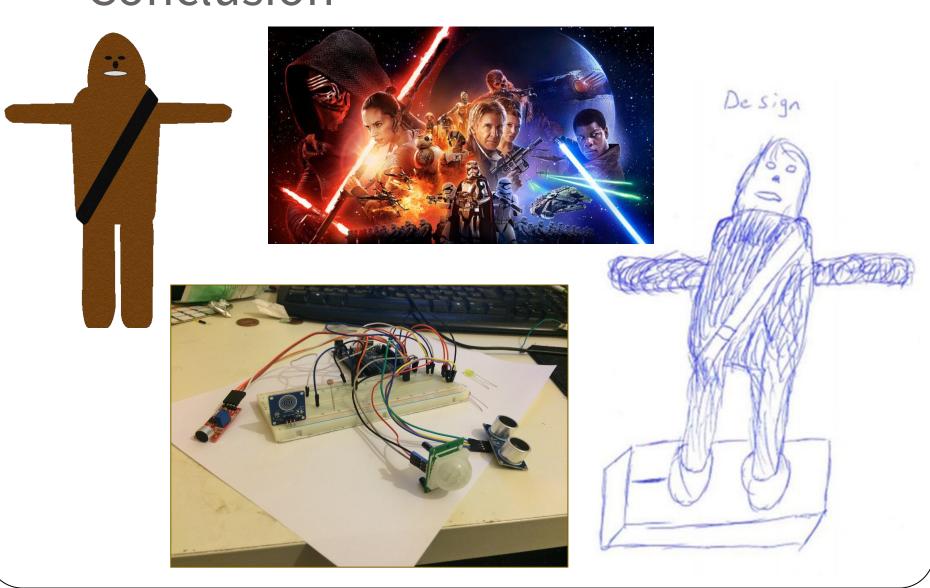
Creating the animation



Usability Testing



Conclusion



THANKS FOR LISTENING!

ANY QUESTIONS?