Project Critiques

Dancing Robots!

Jarvis Home Automation

Team 1 Members

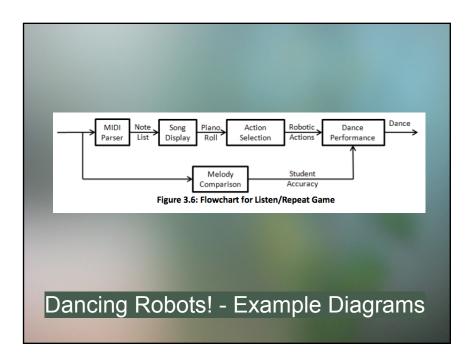
- Brett Baumert
- Curtis Johnson
- Mike Kelly

Dancing Robots! - Specifications

- Build an educational toy that emphasizes entertainment while learning.
- Help children to be interested in both music and technology.
- Provide a relatively cheap and affordable product
- Use Anthropomorphic programmable robots with many available actions across several degrees of freedom to create dance performances.

Dancing Robots! - Goals Fulfilled

- Included a link to the project wiki from the report that contained extensive information on the project progress and goals met.
- Some goals did not have measurable results (help children to be interested in both music and technology.)
- All of the measurable goals were met or exceeded
- Section for future work and improvements was included in the report.



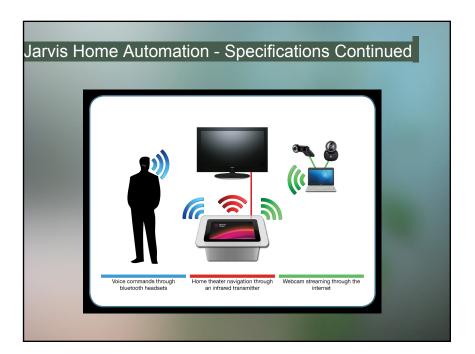
Dancing Robots - Final Report

- The table of contents provided an easy means of navigating the 30+ page report.
- Including technical data in the appendix and referencing it from the report helped with overall flow and readability.
- All relavent and important sections of the report (Abstract, Design Overview, Design Implementation, and Conclusions) were included.
- Used LaTeX and BibTeX to typeset the report.



Jarvis Home Automation - Specifications

- Interactive Information Hub for your home
- Use Microsoft Surface Platform
- View video feed from security cameras
- View digital media
- View the weather and other useful info
- Universal Remote
- Goal: "To make the life of the homeowner easier"





Video Results Completely implemented (performance wasn't very good) Audio Results Completely implemented navigation feature Not successful for intended scope (wanted to integrate voice search to outside data sources) Universal Remote □ More was achieved than expected Media Center Results More was achieved than expected

Jarvis Home Automation - Report

- Spent a lot of time explaining problems with the Microsoft surface
- A little redundant
- Good diagrams
- A little disorganized (ex: overall cost located in the Universal remote section)
- Could have used a table of contents

Jarvis Home Automation - Progress Update Video

- Using Lux Aeterna from the Requiem for a Dream Soundtrack as background music is not recommended.
- Empty beer kegs do not make ideal TV stands.



Dancing Robots! - Design Quality

- Well-Defined Project Goals
- Outstanding Design
- Usable End Product
 o Minimal Work for the End-User
- Expandability

Dancing Robots! - Final Report

- Extremely Well Written
- Great Document Structure
- Easy to Navigate and Reado 30+ pages!

Dancing Robots! - Practicality

- Relatively Inexpensive (Both Production and Retail Costs)
- Extremely Portable
- Very Dynamic Adapts to new songs and sequences
- Very easy setup and install

Practical!

Jarvis Home Automation - Design Quality

- Patchy Design
- To the End-Users...Good luck!
- No Room for Expansion!
- Project Goals to Blame?

Jarvis Home Automation - Final Report

- Little Document Structure
 Sections Labeled Subsections
- Some Aspects of Project Not Described o Microsoft Surface
- Poorly Written

Jarvis Home Automation - Practicality

- Very Expensive! \$15,000 +
- Clunky & Immovable 'coffee table'
- Operates on a Computer
- Inconvenience of Surveillance Cameras
- iPhone available at this time (Android, iPad)

Impractical

Steps to Success

- Layout Specific Project Goals in the Beginning!
- Report Structure
- Consider Practicality...

