

## **WEEKLY REPORT**

**Date: 4/1/13**

Group Name: DEC13-10

Client/Advisor: Dr. Zambreno

Members: Matt Dresser, Jordan Jacobson, Riley Swindell, Allison Thongvanh, Blake Vermeer

### ✓ **Past week accomplishments**

- ❖ A: Blake modeled transmitter design in LTSpice, worked on CAD for prototype #2, and researched and prototyped push-pull oscillator (for power).
- ❖ B: Riley got touch screen functioning with atom board
- ❖ C: Jordan worked with drivers for Windows 7 on Atom board, and corresponded with manufactures about driver for Windows 8
- ❖ D: Matt worked on functionality testing of completed prototype #1, worked on board layout for electronics in chess pieces
- ❖ E: Allison researched and ordered belts and gears for prototypes, worked on CAD for prototype #2

### ✓ **Plan for coming week (April 2-7)**

- ❖ A: (Allison) Complete design of prototype #2
- ❖ B: (Riley) Update site and work on user interface for game statuses
- ❖ C: (Jordan) Get games running on atom board
- ❖ D: (Matt) Finish board layout
- ❖ E: (Blake) Complete design of prototype #2 for order

### ✓ **Pending issues**

- ❖ A: Chessboard design (how big should the squares be, how much space should be between the playing space and space for pieces out of play)
- ❖ B: Base design (Need the implement and test belts with servo and stepper motors in action)
- ❖ C: Software (Create prototype where a game can be played on some platform, program drivers for servo and stepper motors)

### ✓ **Individual contributions**

- ❖ A: Matt – Functionality testing (threaded rods too slow, need different belts)
- ❖ B: Jordan – Got Windows 7 working on Atom board
- ❖ C: Riley – Got touch screen working with Windows 7 on Atom board
- ❖ D: Allison – worked on CAD prototype #2 (80/20 aluminum frame instead of rods)
- ❖ E: Blake – Created model of transmitter worked on improving power efficiency to board

✓ **Individual hourly contribution**

- ❖ A: Matt – 5
- ❖ B: Jordan - 4
- ❖ C: Riley - 3
- ❖ D: Allison – 5
- ❖ E: Blake – 5