**RoboWars**

**Final Report**

**Draft #1**

**SYSC 4907  
April 7th, 2011  
Project #34  
  
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# Introduction (Alex Craig)

* Introduce problem area
* Problem motivation (goals)
* Problem statement
* Proposed solution
* Accomplishments
* Report overview

# The Engineering Project (Steve Legere)

## Health and Safety

* Not terribly relevant

## Engineering Professionalism

## Project Management

* Phased incremental lifecycle
* Heavy emphasis on design work before beginning implementation
* Three stages of development with time scheduled for testing for each phase
* Discuss and reference Gantt chart

## Individual Contributions

### Project Contributions

### Report Contributions

# Background and Terminology

## Android Operating System (Steve Legere)

## LEGO Mindstorm NXT 2.0 (Mike Wright)

## Augmented Reality (Alex Dinardo)

# Requirements (Alex Craig)

# Overall System Architecture (Alex Craig)

# Server Implementation

## Controller - User and Robot State Management and Data Propagation (Alex Craig)

## Controller - Live Media Streaming (Alex Craig)

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# Robot Client Implementation (Mike Wright)

## LeJOS and Modifications (Mike Wright)

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# Android Client Implementation

## Android Libraries and Application Layout (Steve Legere)

## OpenGL Rendering (Steve Legere)

# Testing

## Server Side Testing (Alex Dinardo)

### Unit Testing (Alex Dinardo)

### Integration Testing (Alex Dinardo)

## Robot Client Testing (Mike Wright)

## Android Client Testing (Steve Legere)

# Conclusion (Mike Wright)

# References

# Appendix A – Schedule Gantt Chart

# Appendix B – Use Cases

# Appendix C – Use Case Realizations (Sequence Diagrams)

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