

EE/SE/CPRE 491 Weekly Report
MAY 1631 - Spring 2016
Week 7 Report

Advisor

Leland Harker

Client

ISU Electrical & Computer Engineering

Project Title

Automated Tool Monitoring System

Group Member

Team Leader	Edward Droesch (CprE)
Team Webmaster	Wan Zulsarhan Wan Shaari (SE)
Team Communication Leader	Ibtisam Osthram (EE)
Team Key Concept Holder	Mohamad Asyraf Samsudin (EE)
Team Key Concept Holder	Deeksha Juneja (CprE)

Meeting Attendance (February 28th, 2016)

Wan, Deeksha, Edward, Mohamad, and Ibtisam

Weekly Summary

The main goal of this week is to plan for the tool foam template and the tools arrangement in the toolbox drawer

Meeting Minutes

- Decide and choose what tools we want to arrange and makes the tool detection work efficiently. A drawer will have a similar group of tools
- Testing the myRio program with the latest Vision Assistant script
- Decide to go with the idea of different types of sticker for different drawer
- Creating a tool foam template manually for the testing purposes

Weekly Accomplishment

- Arrange tools and choose a drawer to be test out
- Do the tools foam cut out by hand
- Develop web application

Plan for Coming Week

- Continue testing the image with different sticker's pattern for different drawers
- Design a final tool foam template and do the laser cutting
- Design a lock mechanism using SolidWorks
- Design sensor circuit with the alarm for the case when two drawers are open simultaneously

Pending Issues

- Lock mechanism

Individual Contributions

- **Edward**
 - Analyzed and understood the block diagram

- Tested the Vision script
- **Wan**
 - Worked on web application development
 - Did the tools arrangement of the toolbox
 - Updated the group website
- **Ibtisam**
 - Tested and analyzed the Vision script for the different sticker pattern
 - Helped with the tools arrangement
 - Wrote weekly report
- **Mohamad**
 - Designed independent circuit for the drawer and lock mechanism
 - Did the foam cut out
- **Deeksha**
 - Tested and analyzed the Vision script for the different sticker pattern
 - Did the tools arrangement

Individual Hourly Contributions

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	4	48
Wan Zulsarhan Wan Shaari	5	68
Ibtisam Osthram	5	65
Mohamad Asyraf Samsudin	4	60
Deeksha Juneja	5	31