

EE/SE/CPRE 491 Weekly Report

MAY 1631

Week 10 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 Osthman (EE)
Team Key Concept Holder	Mohamad Asyraf Samsudin (EE)

Meeting Attendance (November 5th, 2015)

Mr. Harker, Edward, Wan, Ibtisam and Mohamad

Weekly Summary

The main goal of this week is to update our project progress

Meeting Minutes

- Update with project progress.
 - Plan A using Raspberry Pi looks promising but lack capabilities in terms of installing image processing software.
 - Presented Plan C(hardware interface without much coding) to Mr Harker as backup plan if Plan A and B fails to comply.
- Mr Harker gave advise to us about not to giving up upon something. He mentioned that Edison wasn't succeed on his first trial but he never stop trying. Each time he failed, he successfully find a way not to do it again.
- We agreed to continue working with image processing task using MyRio as we discussed that MyRio should have the capabilities to be integrated with Vision Software and Matlab.

Weekly Accomplishment

- Presented Plan C (back up plan) to be revised for further improvements.

Plan for Coming Week

- Work on tools detection
 - Proceed with MyRio as it seems to have the capabilities to be integrated with image processing software.
- Prepare to have a provable concept before Thanksgiving break

Pending Issues

- Still have not decided on the design of the lock mechanism
- Still have not figured out how to remotely read files from myRIO.

Individual Contributions

- **Edward**
 - Research on the feasibility of the Plan A for tools detection functionality
- **Wan**
 - Get familiarize with NI Vision software and myRIO LabView
 - Tested several features in NI Vision Assistant.
- **Ibtisam**
 - Get familiarize with NI Vision software and myRIO LabView
 - Deployed a “hello world” program from LabView into myRIO
- **Mohamad**
 - Create a circuit design for the drawer's independent circuit which is going to be used for the Plan C

Individual Hourly Contributions

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	5	18
Wan Zulsarhan Wan Shaari	5	27
Ibtisam Ostham	5	24
Mohamad Asyraf Samsudin	5	25