

## EE/SE/CPRE 491 Weekly Report

MAY 1631

### Week 5 Report

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#### Advisor

Leland Harker

#### Client

ISU Electrical & Computer Engineering

#### Project Title

Automated Tool Monitoring System

#### Group Member

<b>Team Leader</b>	Edward Droesch (CprE)
<b>Team Webmaster</b>	Wan Zulsarhan Wan Shaari (SE)
<b>Team Communication Leader</b>	Ibtisam Osthman (EE)
<b>Team Key Concept Holder</b>	Mohamad Asyraf Samsudin (EE)

## Meeting Attendance (October 1<sup>st</sup>, 2015)

Mr. Harker, Wan and Edward

## Weekly Summary

The main goal of this week is to work on the documentation of Project Plan Version 1 and get familiar with servo and project website

## Meeting Minutes

- Discussed on how to produce foam to place tools.
  - Foam with high contrast color to help the image analysis and comparing.
  - Create a **.dxf** file using photoshop for tools placement in each drawer and sent to workshop for production
- Discussed on system requirement for project plan
  - Should have a number for how large the storage for video
  - sensor should have 100 % accuracy
- Discussed issues with database
  - Can't connect to MySQL database from Raspberry Pi since the database provided by ETG can only accessed through the provided server
  - Alternative
    - Use local database (csv / excel file)
    - Use USB drive for storing video as well

## Weekly Accomplishment

- Had meeting with Mr Harker
- Wrote our first version of project plan
- Created our project website
- Wrote a simple program to make the servo works

## Plan for Coming Week

- Continue working on servo program to get the specific angle of rotation
- Work on writing client side of the code in Raspberry Pi to interact with database.
- Continue research on image comparing and analysis function and its reliability

## Pending Issues

- Making sure that the image processing and analysis server is reliable for this project.
- Still have not decide on the design of the lock mechanism
- Database connection

## Individual Contributions

- **Edward**
  - Continue research on image analysis and processing server
  - Attended meeting with advisor
- **Wan**
  - Wrote a simple program to test the servo
  - Helped in creating project website
  - Wrote a project plan
  - Attended meeting with advisor
- **Ibtisam**
  - Created project website
  - Helped in setting up a circuit connection between servo and Raspberry Pi
  - Helped in writing a project plan
- **Mohamad**
  - Set up a circuit connection between servo and Raspberry Pi
  - Wrote a project plan

## Individual Hourly Contributions

Team Member	Weekly Hour	Cumulative Hour
Edward Droesch	1	5
Wan Zulsarhan Wan Shaari	5	12
Ibtisam Ostham	4	9
Mohamad Asyraf Samsudin	4	11

