# EE/SE/CPRE 491 Weekly Report
# MAY 1631
# Week 4 Report

**Advisor**: Leland Harker
**Client**: ISU Electrical & Computer Engineering
**Project Title**: Automated Tool Monitoring System

**Group Member**:

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

**Meeting Attendance (September 24th, 2015):**
Mr. Harker, Wan, Ibtisam, Edward and Mohamad **(ALL)**

**Weekly Summary:**
The main goal of this week is to work on Raspberry Pi and to ensure hardware part such as camera, card reader and servo works

**Meeting Minutes:**
- Update on each member's progress.
- Discussed about the efficiency of the project:
    - What to do if the server down -- find alternatives
    - Use foam to place tools
    - What to do if the pixel moves when comparing pixel
    - About drawer lock -- mechanically locked or psychologically locked
    - How to decide whether a tool is just slightly move or completely removed.

**Weekly Accomplishment:**
- Had meeting with Mr Harker
- Done safety training to get access to room co1316.
- Successfully connected to the website area and mySQL database.
- Tried out simple command in Raspberry Pi terminal to capture image and record video using webcam.

**Plan for Coming Week:**
- Work on writing a simple servo program
- Work on writing client side of the code in Raspberry Pi to interact with database.
- Continue work on website and upload weekly report there
- 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

**Individual Contributions:**
- **Edward**
  - Research on image analysis and processing server
- **Wan**
  - Research and experimenting with camera testing programme
  - Connect to server and mySQL database
- **Ibtisam**
  - Research on servo and sensor
  - Get started with website
- **Mohamad**
  - Research on mechanism of the drawer lock

**Individual Hourly Contributions:**

| Team Member | Weekly Hour | Cumulative Hour |
|---|---|---|
| Edward Droesch | 1 | 4 |
| Wan Zulsarhan Wan Shaari | 2 | 7 |
| Ibtisam Ostham | 2 | 5 |
| Mohamad Asyraf Samsudin | 2 | 7 |