

# Director of Information Technology

## Summer Plan 2009-2010

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March 26<sup>th</sup>, 2009

### 1 Overview

The summer will consist of me learning the old EngSoc computer system and learning what the current industry standard is for an Ubuntu server system. We will be moving away from customized coding and script making to industry grade and supported code. Industry standards will provide their own documentation and are better immune to security threats. Security and efficiency will be improved after the new system is built.

This summer plan will be focused on the following objectives:

1. Learning the current IT system
2. Learning the technologies that will be used in the new EngSoc IT system
3. Constructing a technical strategy to implement a new, industry standard system on both the hardware and software aspects
4. Creating a new EngSoc website
5. Creating documentation
6. Improving security

## 2 Projects

### 2.1 Learning

**Project:** Reading the books on LDAP, Samba, and Ubuntu server administration

**Priority:** High

**Estimated Timeline:** Weeks 1 and 2

**Description:**

Educate myself on the industry standard server systems such as using LDAP and Samba. I will be purchasing at least two more additional books to educate myself.

### 2.2 Applying

**Project:** Attempting to move information from Civic to Mustang servers

**Priority:** High

**Estimated Timeline:** Week 2

**Description:**

This will be a semi-experimental phase where I apply my ongoing education to the Ubuntu server operating system and attempt to migrate some user accounts from Civic to Mustang. \*Attempting\* will be the copying of data that has no consequence if it is deleted or corrupt in the process because it is a test of my new found knowledge and not anything of critical importance.

**Project:** Moving all data from Civic to Mustang

**Priority:** High

**Estimated Timeline:** Week 3 - 9

**Description:**

This is a big project consisting of building the skeletal system on Mustang. The system is LDAP and Samba. Once these systems are created then a backup of all data will be made before the behind the scenes migration of the current system. Once I am satisfied that the system can work on its own then I will disengage Civic and appoint Mustang as a new centralized server.

**Project:** Re-imaging of EngSoc computers and setup of new hardware systems

**Priority:** High

**Estimated Timeline:** Week 3 - 16

**Description:**

The EngSoc lounge computers will need to be re-imaged and new PCs will be installed. This will occur during the migration of Civic to Mustang. It will be an ongoing process since the computers are dependent on the servers and any semi-critical changes to the server may warrant a change to the client side images.

**Project:** Creating a year plan

**Priority:** High

**Estimated Timeline:** Week 4 - 8

**Description:**

By the end of June I should have a good idea of what will need to be done throughout the year other than basic maintenance. I will have a realistic year plan done by the end of June.

**Project:** Documentation

**Priority:** **Critically High**

**Estimated Timeline:** Week 1 – 16, entire summer

**Description:**

The position of Director of I.T. is new. Since it is new I will be responsible for setting the standard. This standard will now always include formal documentation on any new project. The idea here is that if the DOIT were to abruptly disappear off of the face of the planet then the documentation left behind would contain all information needed for a new DOIT to take over.

**Project:** Recreation of the engineering website

**Priority:** Medium

**Estimated Timeline:** Week 10 and 11

**Description:**

I will need the assistance of a graphics designer to create and improve my concept design. Once the graphical template is complete I will splice it up in photoshop and reassemble with XHTML code. This code will be created in a template compatible format for WordPress to use. WordPress will also contain additional functionality and updates.

**Project:** Creating an RSS (Really Simple Syndication) Feeder

**Priority:** Low

**Estimated Timeline:** Week 11

**Description:**

Customizing an already built (I built it) RSS Feeder that will be compatible on all computer systems. This feeder will keep engineers updated on events, news, career fairs, and anything that we regard as important. The updates will appear on a small window located on the bottom right of the user's screen and the user can customize preferences on it EG: If someone in civil is only interested in civil events then he/she can state that his/her feeder will only display civil events and civil job fairs coming up. Likewise it can be customized on keeping people informed on year events such as Sci'11 elections. When the user clicks on the notification the user will be taken to a specific EngSoc webpage and given more information on the event.

**Project:** Backup Server

**Priority:** Medium

**Estimated Timeline:** Week 11 - 14

**Description:**

A new backup server system will be created to backup the new system as a whole. This will involve the purchase of a new backup server or the purchase of industry standard hard drives. The backup server will always be responsible for the backup of Mustang and Delorean and it will contain the client side images of the EngSoc computers. The backup may have additional responsibilities as well such as backing up QuickBooks to an encrypted location on the server.

**Project:** Miscellaneous Tasks

**Priority:** Low to Medium to High

**Estimated Timeline:** Week 15 and 16

**Description:**

This is a random assortment of projects with varying priority that still haven't been given to me in detail. It is not even known whether they need to be done by me or not. I am allocating time here for them. There will be more than enough to keep me busy even if there are not any additional projects to be completed by me.

### 3 Conclusion

Implementation of the new system is my primary goal for the summer. The new infrastructure will bring industry grade security, proper documentation, and support for generic programs. Increasing my familiarity with the system and moving towards a mainstream standard will allow for better transitioning for future DOITs.

Sincerely,

Brent Mucci