

Seymour Cray Outstanding Placement Award Presentation

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Agenda

- My Placement Company
- Job Duties
- Project Involved
- My Feelings
- My Life in HAECO
- Q & A

My Placement Company

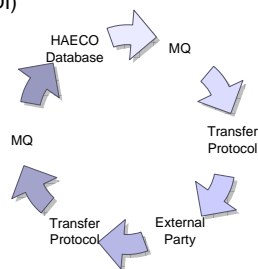
- HAECO
 - Hong Kong Aircraft Engineering Company Limited
- Placement period
 - 4/7/2005 – 31/7/2006 (extended 1 month)
- Working in MIS department in Tseung Kwan O
 - Mainly 2 software teams
- A member of Technical Application Support Team (TS Team)
- Another team is Application Team
- Technical requirement:
 - VB .NET
 - MS SQL Server

Job Duties

- Mainly 2 roles
 - Framework programmer
 - Program framework for application programmer to develop application
 - Bug fixing of existing program
 - Adding new features and functions
 - Require researches on new technology
 - Writing documentation
 - Application programmer
 - As an user of the program framework
 - Gather users requirement
 - Develop application to fulfill users' needs
- Program developed
 - Windows application, web application, Crystal report, XML web service, etc.

Project Involved

- Electronic Data Interface (EDI)
 - A new feature of program framework
 - An interface for information transfer with other company
 - Based on XML data
 - Using transfer protocol like FTP, HTTPS, etc
 - Transformation of XML data using XML stylesheet
- Challenge
 - My 1st task in HAECO
 - Intensive study on XML



Project Involved (cont'd)

- Web application framework
 - Newly developed framework using ASP.NET
 - Implemented authentication process and consolidated with exist authentication mechanism
 - Provided an UI and program standard
- Challenge
 - Familiarized with web application quickly
 - Involved in the design of framework

Project Involved (cont'd)

- Graphic Library
 - A graphic framework for the need of graphic programming of application
 - A graphical presentation of time variant data in existing database
 - Application that require the introduction of graphic library
 - Management of working hours of engineers and technicians
 - Utilization of machinery
- Challenge
 - A lot of mathematics calculation is required when dealing with the visualization of time variant data

Project Involved (cont'd)

- Asset Management System (AMS)
 - A newly developed application for users to manage asset of aircraft to reduce heavy manual handling
 - What is asset?
 - An aircraft contains over thousands of parts
 - Each part is an asset of a company (e.g. HAECO, CX, KA...)
 - Line maintenance of aircraft is time-critical
 - A malfunction part can be replaced and repaired
- Challenge
 - Changes of existing database was necessary for the introduction of AMS
 - Involving complicated business logic that I have never touched before

My Feelings

- Software team in HAECO is actually a small team (with <20 people)
 - Had chances to try out different roles
- Learnt new technical skills
- More important is...
 - How a good programmer should behave!!
- All applications are based on the needs of users
- Every design and architecture should aim at meeting requirement of users
- Preparation of requirement definition, execution of user acceptance test is very important part in software development

My Life in HAECO

- A visit to base maintenance (BM) in Chek Lap Kok



My Life in HAECO (cont'd)

- Another visit to line maintenance (LM) in Chek Lap Kok



My Life in HAECO (cont'd)

- Farewell day



