Internship Report

B.Eng. in Software Engineering, Academic Year 2013

International College, King Mongkut’s Institute of Technology Ladkrabang

By

5X0900XX Firstname Lastname

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Internship period : 2 June – 18 July 2014

# Company outline

## Company name and address

Provide the official name of the company, the physical locations of the headquarter, the offices, the manufacturing sites, and other sites of the company, as well as its website.

## Main activities

Describe the main activities and/or main products of the company. You may include the company’s vision, philosophy, mission statements, objectives, goals, etc. here.

## Organization structure

Describe the organization structure of the company. Provide an organization chart. Provide a brief description of the responsibility of each department in the company. Give an estimate of the total number of employees and the number of employees in each department.

## Department and supervision

Provide the name of the department (or division) in the company in which you are doing your internship. Provide the name(s) of your supervisor(s) in the company and their contact information.

# Internship

## Original description and objectives

Give a clear and concise description of your internship and its objectives which is given to you at the beginning of your internship.

## Revised description and objectives

If there is any revision to the description and objectives of your internship, summarize the revision here and explain the reasons for revision.

# Software Development

Your internship should involve the development of a piece of software, either as an individual project or as part of a larger software system. This section is for you to summarize the software development process in your internship.

## Background

Provide a summary of the background of the software you developed. This may include:

* Why the software should be developed?
* If the software is an improvement of an existing system, what are the problems and deficiencies of the existing system?
* If the software is part of a larger system, describe the whole software system and describe which parts of the system your software will interact with.
* Review of similar software in the market
* Who will be the user of the software?
* Summary of technical detail required to understand the requirements of the software
* Concise explanation of the software development environment and essential software libraries used in the development

## Software requirement specification

Provide a clear and concise specification of the requirements of your software. This may include the functional/non-functional requirements of the software, use cases, scenarios, mock-ups, etc.

## Development team

Provide the list of the people involved in the development of the software. Describe key responsibility of each person and, if possible, the names of the source code files that each team member implements.

## Project plan

Provide the initial project plan and the final revision of the plan. You may include Gantt charts of the project. For each task in the project, give the names of the team members who carried out the task.

## Software design

Describe the final design of the software. You should explain the overview of the design of the software (include diagrams describing the architecture of your software and its context), the decomposition of your software, and then give detailed descriptions of key components of the software. If possible, include the name of the source code file that contains the implementation of each component. You may want to include the following diagrams: package diagrams, component diagrams, class diagrams, sequence diagrams, activity diagrams, E/R diagrams, etc.

## Implementation

### Development tools

Describe the software tools (including programming languages, IDE, software libraries, etc.) used in your implementation of the software.

### Techniques

Describe important programming techniques and algorithms in your implementation of the software.

## Testing

Describe how you test your software. Describe how you design your test data and any test script you used. Give examples of test data.

##  Screenshots

If the company allows, provide some screenshots depicting key features of your software.

# Achievement

## Summary of work done

Provide a summary of the work you carried out during the internship. If a piece of work is carried out by more than one team members, please explicitly state so. Also give an estimate of the number of lines of code you wrote (not including commented code and, for web pages, not including the content of the web pages).

## Evaluation

Give an honest evaluation of how successfully you achieved your objectives

# Conclusion

## Skills and knowledge learned

Explain what skills and knowledge that you studied in the International College are applied on your work during the internship and how useful are those skills and knowledge. Explain whether you have improved any existing skill and whether you have learned any new skill and knowledge during your internship. What knowledge and experience will you take forward as the most important lessons from your internship?

Explain what publications (books, articles, etc.) and other materials you have studied during the internship and what you learned from those materials.

## Problems and possible improvement

Describe the problems you experienced during your internship. Were there any techniques that you would like to have known before undertaking the internship? Explain how your internship experience could have been improved.

# Acknowledgement

A brief “Thank you” message for the people who helped you during your internship

# Reference

List of publications and other materials referred to in the report

# Source code

## Source code written by 5X0900XX Firstname Lastname

/\* HelloWorld.java \*/

package helloworldapp;

public class HelloWorldApp {

 public static void main(String[] args) {

 System.out.println("Hello World!"); // Display the string.

 }

}

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