Internship Project Proposal for INFT6993

Spring 2013

*(Student: Islam A. Ebeid)*

**Course Description of INFT6993 INTERNSHIP:**

Students will develop and/or maintain a sponsored information system or computer laboratory. Duties will include determining **user needs**, writing and presenting a laboratory or system **development and/or maintenance plan**, and **supporting** the laboratory or system for **one semester**. The internship will require as a minimum, 12 hours per week) of direct, technically oriented, work on the project, excluding various reporting duties for the Instructor.

* **Identify the main area(s) of information technology of your project:**  (check all that apply)
* Web site development (0 %)
* Databases (0 %)
* Networking (0 %)
* System analysis/design (50 %)
* Others Graphical user interface development, Algorithm Animation (to be approved by the instructor)
* **Describe your sponsor:**
  + What’s the person’s name who provides you the project? Dr. Larry Morell
  + What’s the sponsor’s organization/company/office name? Arkansas Tech University, Computer and Information Science Department
  + Where your sponsor is located (detailed address)?

Arkansas Tech University

1811 N. Boulder Avenue, Corley 248

Russellville, AR 72801

* + How can your sponsor be contacted?

Phone: 479 692 1854

E-mail: iebeid@atu.edu

* + How do you find this sponsor? Very knowledgeable
* **Describe your project:** 
  + Make a name for your proposed project (and use the name in all other documents later):

Displaying data structures and algorithms in a graphical user interface

* + Estimated total hours for completing the project, including meeting, discussion, design, development, testing, training, documentation, presentation, etc.

\_\_\_\_\_\_\_ Total hours (based on 15-week semester), or 20 hours per week

* + Will you do most part of the project at the sponsor’s work site? Yes
  + Will you leave the State of Arkansas for performing the project? No
  + Is this a brand new project/system/product of the sponsor? Yes
  + List any other current ATU graduate students \ working together with you in this same project? No one
  + Besides your sponsor, will there be a technical supervisor or project manager or task leader working closely with you during the internship? Yes
  + List any technology or skills or tools that are new to you and that are required for this project? Java Flex Framework
  + List course(s) that you have completed in our program, that you think will significantly help you to complete this project? INFT 6303 Web Development
* **Describe yourself:** 
  + What semester do you plan to graduate? Fall 2013
  + How many credit hours have you already earned for the degree? 27
  + Have you taken another Internship before? No
  + List other courses in this semester with the internship? INFT 6903, INFT 5983
  + If you are an international student, have you applied CPT for this course? No
  + I have read the course syllabus and understand it’s my responsibility to present the project result on **a mutually agreed-on date around May1-3, 2013** to conclude the course. I understand my highest possible grade will be ‘B’ if I do not present my project in class on the above date. I also understand that an incomplete grade ‘I’ cannot be assigned to the internship course if the proposed project cannot be finished by end of the course.

IE (Student’s initials)

* **Discuss with your sponsor and define clearly the problem(s) to be solved by this project:**

*(Please do not simply write tasks like analyze user requirements, or develop a web site, or maintain a network, or design stored procedures, or test program codes, etc. Think about why the sponsor needs this project.)*

Algorithm animation is one of the topics that hasn’t gone far enough in terms of development during the last decade.

These kinds of applications are so important to newbie programming students. Also you can find it important to developers for visual debugging of algorithms.

I am proposing a modern, solid and robust system that captures the changes in a runtime environment and displays it in a rich graphical user interface helping learners digesting the basic ideas of programming and algorithms.

* **The expected results of the project (list all specific items to be completed):**

*For example, a survey, a detailed analysis report in UML, program code in PHP, a new web site, a revised Oracle database, a test plan and test cases, a user manual, a training session for users, etc.*

* 1. A design document including all requirements, specifications and design
  2. A complete Java desktop application including program code in Java
  3. A user manual
* **Student’s signature: Islam A. Ebeid Date: 01 / 24 / 2013**
* **For the internship project sponsor:**

I have reviewed this proposal and agree to be the project sponsor of the above intern student by performing the following items to meet the academic purpose of INFT6993:

* Support an internship project in the information technology area(s) for the above intern student

in Spring 2013 (from **January 14th** to **May 1st, 2013)**.

* Select and arrange the project so its contents are appropriate be presented in class;
* Provide guidance to the intern student as needed during the project;
* Provide resources required for completing the project;
* Allow time for the intern student to travel/come to class **on May 1-3, 2013**, for a final presentation which is required for a grade to conclude his/her internship; and
* Write an evaluation of the project at the end of the internship.

Sponsor’s Job Title : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sponsor’s Name (print): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sponsor’s signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_