

### Student Periodic Progress Report

Name of Student:		Name of Organization:	Deanship of information technology
University No.:		Specialization:	Electrical and Computer Engineering

**Reporting Period:** From 29/5/2016 to 16/6/2016  
**Week No. 3** **Total hours worked:** 120 hours (3 weeks × 5 days × 8 hours = 120 hours).

**For the mentioned period please report the following:**

<p>1. List your responsibilities or duties on the job.</p>	<ol style="list-style-type: none"> <li>1- Writ a proposal which contains five ideas that applying the concept of internet of things (IoT) for the sake of KAU.</li> <li>2- Write a simple code by using visual studio program to gain a perfect understanding of the connection between the cloud and the device (by sending messages between IoT hub and simulator device).</li> <li>3- Make a presentation that contains a brief description (summary) of internet of things (IoT), internet of things hub (IoT Hub), Azure platform and its services and advantages.</li> <li>4- Make a project which is temperature alert with Azure IoT Hub and an Mbed board. The IoT Hub is used to ingest data from the device and to notify the device when alerts are triggered by cloud services.</li> <li>5- Build a warehouse-manager application with a barcode scanner and database. The application will be able to scan a barcode, and update and create new products in a database.</li> </ol>
<p>2. List new technical skills that you learnt on the job.</p>	<ol style="list-style-type: none"> <li>1. The job provided me with a deep understanding on how the internet of thing is used in real life.</li> <li>2. Realize the security of internet of thing, artificial intelligence and machine learning.</li> <li>3. Understanding clearly the concept of cloud computing, its advantages and disadvantages.</li> <li>4. Learn how to use the visual studio and what is the importance of the cross platform.</li> <li>5. Learn how to create application and launch it in the mobile.</li> </ol>

	6. Learn how to make a connection between the cloud and the device explorer (simulator device). 7. Learn how to use Microsoft Azure portal. 8. Learn how to write a professional documentation.
3. What have you learnt in class that you have applied or observed on the job?	1- Applying the concept of the engineering design process. 2- Applying the programming language that I learnt in the engineering college. 3- Organizing the time and finish the work before the deadline. 4- Applying the concept of the teamwork to provide benefits to the job and individual employees.
4. Was the organization supportive/helpful in your training? What difficulties, if any, did you face on the job?	- Yes, she was so helpful and supportive. - The programming in the visual studio is the only difficult I was faced because the visual studio program needs high programming skills.
5. What other skills could you use to improve your performance in your training?	1. Improve my programming skills. 2. Read more about the database and how it works.
6. What interesting or challenging relationship did you have during this period with the supervisor or any other employee?	The technical supervisor and the employee are so friendly with me. They are helping me to learn new skills. Also, the supervisor encourages me to do the best.
7. Areas where you think you need improvements.	1- Programming by #c language. 2- Dealing with visual studio program. 3- Learning more about database.
4- Additional comments if any.	_____

**Note:** (Fill this report 3 times electronically; and submit it to the adviser in the 3rd week, 6th week and 9th week.). Use additional paper, if necessary, to elaborate on your responses.