

# Hana' Ahmad Al-Theiabat

Citizenship : Jordanian ▪ Date of birth : 23 December 1990

## Contact

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## Address

Ramtha, Irbid, Jordan

## Education

**Bachelor's degree in:** Computer Engineering  
**University:** Jordan University of Science and Technology (JUST)  
**GPA:** Excellent degree ( 90 /100 )  
**Period:** September 2008- June 2013

**Master degree in :** Computer Engineering  
**University:** Jordan University of Science and Technology (JUST)  
**GPA:** ( 86.5 /100)  
**Period:** September 2013 – February 2016

## Competition and Awards

- Class rank (B.S): 3 of 73
- Dean's Honor List 7 out of 10 times.
- Reached semifinal at Creative Business Cup (CBC) competition in Amman. Presented our project: **"Together Forever it is mobile application for Autism Communication learning"**.
- Achieved 2nd place in the Queen Rania Award for Entrepreneurship. For our same project Together Forever.

## Research Publications

- Aisheh Al-Sadi, **Hana' Al-Theiabat**, Fahed Awad, “: MobileRescue: A Collaborative Smartphone Application for Emergency Services.” In *Proceedings of Extended Abstracts of the 5th Annual Undergraduate Research Conference on Applied Computing (URC 2013)*, Dubai, UAE, May 2013.
- Basheer Al-Duwairi, Natheer Khasawneh, **Hanaa Theiabat** and Mohammad Fraiwan, “: A Prototype of a Centralized Smartphone Botnet for Private Information Collection.” In *Proceedings of Extended Abstracts of the SecureAbuDhabi Conference 2013 on Security in the 21st Century Threats & Trends (SAD2013)*, Abu Dhabi, UAE, March 2013.

## Master thesis area

In my thesis, I am working on video analyzing system for sport applications, where we propose a human motion tracking system for soccer game, to analyze the soccer player actions and movements for training issues. ( **image processing & human motion fields**)

## IT Skill Set

### Languages:

- C++
- C#
  - Console Application
  - Windows Application
  - ASP.NET
  - ADO.NET
  - GMap.NET
  - Graphics
  - Networking
- Assembly
- Java

### Web Development:

- JavaScript, JSP, Ajax, Servlet
- PHP with mysql
- Codeigniter framework
- JQuery, HTML5
- use Google App Engine

- OWASP security principles
- SCM tools such as **Git**
- Automated testing using Selenium driver

- Image Processing, video compression
- Parallel Computing
- Big data
- Artificial Intelligence
- Wireless Networks
- Network Security

- ✓ TinyOS: sensor
- ✓ MATLAB
- ✓ Simulink

## Certificates

- Workshop: test the penetration of Web Applications
- Training on Entrepreneurship, Innovation, Competitiveness, and Practical Business Skills Development
- Certificate in Entrepreneurship Development Creative Business Cup (CBC)
- Adobe Photoshop CS5
- MCTS: (ADO.NET ),(ASP.NET ),(C#)

## Experience

December 2015 – present

- **Web developer** at computer center of Philadelphia University.
  - Developing new systems for the university using PHP frameworks.
  - Managing all website issues.

September 2013 - July 2015

- **Computer Lead Engineer** at MARS Robotic (Mazaari Autonomous Robotics Systems)
  - Computer Lead Engineer from September 2013 until October of 2014
  - Unmanned Aerial Vehicle (UAV) Project Lead Engineer Since September 2014 until July 2015, my tasks include:
    - Coordinate and follow the UAV project progress
    - Hold team meetings and schedule the project plan
    - Develop Ground Control Station (GCS) using .Net framework for the UAV project.
    - Responsible on the embedded system part on the UAV project.
  - Lead the Android Project which responsible to convert the .Net GCS software to be on the Android system during March 2015 until May 2015, when the project was put on hold develop some task in Android project.

January - May 2013

- Work as **Research Assistant** at JUST (Jordan university of science and technology) with Dr. Basheer Al-Duwairi on Android Security field, and our result shown as publication.

June-September 2012

- I have Trained as **PHP developer** at Universal Research Solutions at its Branch in JUST (Jordan university of science and technology).

### Project:

We work on project related to Oberd system which is a website for medical hospitals that offer online communication between patients and doctor; so the patients answer questioners to help the doctors diagnose their patients' cases. So, we develop a portal that allows patients to access existing Questionnaire Database on Oberd System and suggest / discuss modifying the Questionnaires to satisfy their needs. Then being published as new Questionnaire on the system after approving from the doctor and notify them that by email. **(Using PhP with MySQL).**

December-January 2010

- Work as volunteer in Solution Development Kit (SDK) Company to gather my university students to form a community to interchange the experiences and earn new skills.

## Projects

### ❖ Mobile-Assisted Localization for Rescue Services (MALRS)

A collaborative smart phone application that allows an urban search and rescue team to detect and locate survivors under rubble after the strike of a natural disaster without a need of any infrastructure. We prove the concept **using Omnet++ simulation and sensor network (TinyOs).**

#### ❖ **Artificial Intelligent: FEUTP (Final Exam University Timetabling Problem)**

This project implements enhanced Genetic Algorithm, to find a solution that matches all hard constraints and the most possible soft constraints associated to the Final Exam University Timetabling problem. **(Using .Net)**

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#### ❖ **Parallel Computing (transposing matrices)**

Implement an approach called Bruck to handle all-to-all communication overhead collective communications, with two versions: first using MPI (Message Passing Interface), second using Pthread.

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#### ❖ **Modified Parallel dictionary LZW Data compression (FPGA)**

Implement two versions of hierarchical dictionary for LZW data compression the first version used sequentially search and the modified one is used parallel search for acquire high throughput. **(Using FPGA: Xilinx, ISE).**

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#### ❖ **Educational Mobile Application For Kids**

Educational mobile application for kids consists of four parts: Alphabetic, Numbers, Shapes and Colors. For each part, the application shows pictures and pronunciation with attractive design. In addition, there is a math quiz to improve the mathematical skills of kids. **(Using Android platform).**

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#### ❖ **Android Security**

A prototype of a centralized smartphone botnet for private information collection, using command encryption to steal the private information without any user attention and to send it to botmaster server. **(Using Android platform).**

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#### ❖ **JUST Report Website**

A Web Application called "JUST Report" that helps JUST students to upload the image for any problem in the university with some description about it. Then the administrator forwards this problem to the department that the problem belongs to for solving it. **(Using Google app engine, Servlet, Ajax, jsp, jquery, and javascript).**

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#### ❖ **Collecting Alphabetic with 3D Game**

A 3D game where a child collects the Alphabetic letters by using a 3D player then the letter pronunciation appears after specific time. It has a well-designed nature for encouraging kids to play. **(Using Unity).**

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#### ❖ **MAZARIGUI Ground Station**

A ground control software for the MAZARI Autopilot System provides an easy to use user interface with powerful mission planning, monitoring, and in-flight adjustment tools. The operator has ready access to all the flight and navigation capabilities of the autopilot. **(Using C# + GMap.Net).**

### ❖ Car Rental System

A complete system for car rental company, which allows renting, returning and calculating the cost for a customer depending on many factors such as the period of rent, kind of car,...etc. **(Using C# Console Application).**

### ❖ CPU Simulator

A CPU simulator in the system programming course. We built a complete microprocessor simulator (assembler-linker-loader-simulator). **(Using C# Windows Application).**

## References

Upon to request.

## Links



: [http://www.linkedin.com/pub/hana-a-al-theiabat/16/893/11\](http://www.linkedin.com/pub/hana-a-al-theiabat/16/893/11)