Ahmed Hani Ibrahim

**Mobile Number:** (+2) 01112850995 **Languages:** Arabic (Native Language), English (V.Good), French (Fair)

**Email:**  ahmed.hani.ibrahim@gmail.com

**Place/Date of Birth:** Cairo/18th October 1993

# Education

* [2011 –*expected* 2015] Faculty of Computers and Information Science, Ain-Shams University.

* [2010-2011]: High School Certificate, El Tawfekya Secondary School, Math Section, Grade: 93.9%

# Qualifications

* **Languages:** C++, C#, Java, PHP *(familiar with),* Python *(familiar with),* JavaScript *(familiar with).*
* **Databases:** MS SQL Server, MySQL.
* **Concepts:** OOP, UML Modeling, Data Structures and Algorithms, Design Patterns, Game Programming, Web Development, Problem Solving, Artificial Intelligence for Games.
* **Technologies:** XNA Game Studio, ASP.NET MVC, ASP.NET AJAX, Windows Phone, Bit-bucket, Git and [Github,](https://github.com/AhmedHani) [Wordpress.](http://ahmedhanibrahim.wordpress.com/)
* **Soft Skills:** Self-learning, Team work, Mentoring, Creative thinking, Adaptation, Planning skills.

# Projects

* **Image Processing Package (C#)** *(Team of 4)*
  + A powerful photo editor tool that contains several image processing optimized algorithms to implement many operations such as:- -- Content-aware resizing using Seam Carving algorithm

-- Blur (Smoothing, Sharpening, Mid-removal, Gaussian, Edge detection)

-- Filters (Gray-scale, Brightness, Inversion, Gamma correction, Contrasting, Tint) -- Image algebraic operations

-- Noise (Salt and pepper, Median filter)

* **Sky War Revolution (C#, XNA Game Studio 4.0)** *(Team of 4)*
  + I was responsible for implementing the AI algorithms and techniques, and I helped on creating the game world environment. - More about the project [here](http://skywarrevolution.wordpress.com/)

* [**Photo Mosaic (C#)** *(Team of 3)*](http://www.mediafire.com/?v45ecvzesc7cjw7) 
  + The project idea is about implementing a tool that takes an image as an input, and generate a Mosaic for it.
  + We have implemented it with multithreading and using 2 methods:- Average, CCV.

* [**Chess AI Engine (C++, SFML Graphic Library)** *(Team of 4)*](http://www.mediafire.com/?e42jcpc1pw5ca8u) 
  + Powerful Optimized Chess AI Engine where various Algorithms are used efficiently and Statistics with a user-friendly GUI added.

* **Otlob (C#, MS SQL, Light Switch)** *(Team of 4)*
  + It is a desktop client application that simulates [otlob.com, that enable user to know the places he wants to go like restaurants,](http://www.otlob.com/) hospitals.. etc., and know the category of sales of each place.

* **Treasure Hunt (C++)** *(Team of 2)*
  + Action Game where decisions must be taken to enter next levels, the hero should find a hidden treasure to enter next levels before his movements count ends.

# Extra-Curricular Activities

* [**Ain Shams University ACM Student Chapter**](http://www.acmascis.org/) 
  + **Technical Committee Head** (2013-current), Responsible for leading the technical team to develop all the services and applications required by the acmASCIS student chapter at my faculty, in order to increase the chapter's productivity and effectiveness.

Web master for some of the chapter's online utilities like web site and forum.

* + **Training Committee Member** (2012-2013), Mentor for the junior trainees to help them to increase their coding and problem solving skills to be ready for the ACM Local, Regional, World Finals Contests.

My Roles were the following:- Helping on setting a training plan for the first and second year students, Teaching them the basic development using C++ language, Participating as problem setter in sessions and contests

* + **Instructor at** [**AI Challenge Summer Course** (2013-2014), Responsible for leading the content team to prepare the course’s](https://docs.google.com/document/d/1pOfWGqeET14ybHRlOo_nY0LrNbHWsicvCOOniJhaW4c/edit) content and sessions, and I was an instructor in a session.

* [**ASU Microsoft Tech-Club**](https://www.facebook.com/ASUTC?ref=br_tf) 
  + **Microsoft student partner representative** (2012-2013), Worked in the technical branch, helping the students to know the latest technologies and how they can use them to improve their skills and knowledge.

* Solved more than 600 problems on problem solving online judges like [**UVa,**](http://uhunt.felix-halim.net/id/130210) [**Codeforces,**](http://codeforces.com/profile/ahani) [**TopCoder,** and participated in Code jam](http://community.topcoder.com/tc?module=MemberProfile&cr=23102291)

and Facebook Hacker cup competitions.

# Honors and Awards

* Ranked 3rd on Algorithms Analysis Project
* Ranked 1st on Introduction to Computer Science Project
* Ranked 12th on acmASCIS Local Contest 2012
* Qualified and participated in ACM ECPC National Contest 2012
* Ranked 1st on acmASCIS I, II senior contests

# References

* [Amr Mahdi](http://www.linkedin.com/in/amrmahdi) 
  + Software Engineer at Microsoft USA

* Ahmed Emad Morsi
  + RSDE at Microsoft Research, ATL Cairo

# *You can know more about me from my* [*Linkedin Profile*](http://www.linkedin.com/pub/ahmed-hani-ibrahim/60/709/72)