

# MUATH SABHA

**Assistant professor, Multimedia Technology**

**President Advisor University Ranking**

**Researcher, Digital Heritage**

*ABET Accreditation Committee at EIT*

*Accreditation Committee in the Ministry of Higher Education-Palestine*

ARAB AMERICAN UNIVERSITY-JENIN

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## OBJECTIVE

Seeking for an opportunity in a university leading position to improve the education operation in higher education institutions, and to facilitate business opportunities in Information Technology, Computer Graphics, Game Design and Development, web design and programming, Mobile programming, multimedia technology for cultural heritage and Multimedia Technology in Education.

## EDUCATION

**Computer Engineering - Computer Graphics, PhD** May 2004 – April 2008  
**Katholieke University Leuven**, Leuven, Belgium

Studies focused in computer graphics in general, specialized in "Texture Synthesis", Color Theory, and Digital Image Processing. The research group worked on rendering and Visualization in computer graphics. I have published several papers in international conference and a Journal paper on texture synthesis. The dissertation was about "Sample Based Texture Synthesis".

**Computer Engineering, Master of Science** Nov. 1995 – July 1999  
**Arab Academy for Science and Technology**, Alexandria, Egypt  
GPA 3.83/4.0

Studies focused in Computer Networking, and masters' courses in data structures, artificial intelligence, and advanced database. The master thesis was "IP over ATM". Served as Teaching Assistant for introductory programming classes and computer networks classes, responsible for assignment grading, class review sessions, and one-on-one student meetings.

**Electronics and Computer Engineering, BSc** Feb. 1989 – May 1994  
**Arab Academy for Science and Technology**, Alexandria, Egypt  
GPA 3.69/4.0

I have two majors in my BSc, Electronics and Communications Engineering in addition to Computer Engineering. Specialized in Digital Electronics, Digital Signal Processing, Digital Communication Encoding and Decoding, Microprocessor, and Hardware. The final project was INMARSAT Encoder-Decoder. I was the founder of the PCC (Personal Computer Club) and a member in the electrical and electronics club.



## Skills

- Curriculum Development
- Mobile programming
- Game design and development
- Interactive educational materials
- Interactive 3D web application
- 2D and 3D graphics
- Moodle 3.2

## EXPERIENCE

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### **University President Advisor for University Ranking** Nov 2016 – Present **University Image Unit, Chair**

Arab American University-Jenin, Jenin, Palestine  
<http://www.aauj.edu>

This unit is a new unit for improving the university image in all aspects, focusing on the **university ranking** in different global ranks. In addition to that, improving the university image in the media and amongst the university costumers, the companies and institutions who hire our graduates. Working on the university branding is also one of the challenges of the unit. The university governance unit is also included in the university image unit.

### **Faculty of Engineering and Information Technology, Dean** Sep 2014 – Aug 2016 **Arab American University-Jenin, Jenin, Palestine** <http://www.aauj.edu>

In the Faculty of EIT, we have 6 undergraduate departments and one MSc department. I am leading a wonderful team for improving the education quality and bridging the gap between academia and private sector. Entrepreneurship startups and innovation is our theme for the two academic years 2014-2016.

### **Multimedia Technology Department, Chairman** June 2008 – Aug 2014 **Arab American University-Jenin, Jenin, Palestine** <http://www.aauj.edu>

I have updated and maintained the syllabus of the Multimedia Technology Department, in addition to teaching many courses in the program including (Fundamentals of Computer Graphics, Advanced Computer Graphics, Introduction to Multimedia, Computer Aided Design and Drafting, Digital Image Processing and Game Design and Development). I led a team of programmers to the ACM competition held in Alexandria-Egypt in November 2008. I was a member in the Faculty council. We have a new research group in the multimedia and computer graphics areas.

### **Multimedia, Curricula and Multimedia in Education Consultant** Feb 2012 – Present

- August 2014-January 2015, **Curriculum Development** at Wajdi University College of Technology (WUCT).
- August 2013-September 2014, Multimedia in Education Consultant for the Palestinian Ministry of Education and Higher Education. This consultation is for producing e-courses by supervising training of MM and ID supervisors, and training them to produce and use efficiently learning objects.
- February 2012-June 2012, I have worked as a consultant for the “Emirates College of Technology, Abu Dhabi” in **program assessment** and for **developing a new Bachelor Degree** in Multimedia and Computer Graphics.
- March 2012-November 2012, Research Consultant for the “Technological Education Department” in three Palestinian universities, supported from the EU.

- August 2014, I have worked as a consultant and lead the team of “Dar Al-Kalima University College of Arts and Culture”-Bethlehem, for the assessment of the Visual Arts Department and putting a curriculum for the “Documentary Film Production” department.

**Multimedia Production and Training, CEO and Founder** July 2009 –

Present

**Neiraba Animation Studios (NAS), Jenin, Palestine**

<http://www.neiraba.com>

I have established NAS with some fresh graduate students starting October 2008, and officially started the company on July 2009 after about a year of study and following a business plan which I have wrote. I have trained most of the staff members in NAS to work in a team and the technical experience needed for each line. The company has some products in the market and the company profile could be submitted upon request.

**Computer Graphics Researcher**

Nov. 2003 – May 2008

**Katholieke Universiteit Leuven, Leuven, Belgium**

I have worked as a researcher in the field of computer graphics in the computer graphics research group in the computer science department under the supervision of Prof. Philip Dutrè. I have some publications as listed below, in addition to co supervision on some master’s thesis.

**Computer Science Department, Acting Chairman**

Sep. 2001 – Oct. 2003

**Arab American University-Jenin, Jenin, Palestine**

I have updated and maintained the syllabus of the Computer Science Department, in addition to teaching many courses in the program including (Digital Logic Design, Programming Fundamentals I (c/C++), Object Oriented Programming (Java), Computer Networks, PC Upgrading and Maintenance and Artificial Intelligence). I have represented the faculty in the University council and the department in the Faculty of Information Technology Council.

**Team leader and Project Manager**

Sep. 2000 – October 2001

**ASAL Technologies, Ramallah, Palestine**

Lead designer and developer for web sites and promotional media for small businesses. Utilized contemporary design to create concise web sites for specific client needs. Site creation included use of HTML, JavaScript, MySQL and Adobe Flash. Created and assembled web graphics, including logos and advertisements.

## RESEARCH ACTIVITIES

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### Articles in International Reviewed Journals

- **Muath Sabha**, Pieter Peers and Philip Dutré, Texture Synthesis using Exact Neighborhood Matching, Journal of "Computer Graphics Forum", June 2007 - Vol. 26 Issue 2, pages 131-142.
- Adwan Yasin, Nizar Shehab, **Muath Sabha** and Mariam Yasin, "An Enhanced Steganographic Model Based on DWT Combined with Encryption and Error Correction Techniques", IJACSA Volume 6 Issue 12 December 2015.

### Publications in International Conferences, Published in Proceedings

- **Muath Sabha** and Jacquleen Joubran, Adaptive Camera Placement for Open Heritage Sites, International Conference on Future Networks and Distributed Systems (ICFNDS) 2017, July 19 - 20, 2017, Cambridge, UK.
- Abeer Zaroor, Mohammed Maree and **Muath Sabha**, "A Hybrid Approach to Conceptual Classification and Ranking of Resumes and Their Corresponding Job Posts", Intelligent Decision Technologies 2017. IDT 2017, Vilamoura, Portugal, Volume: Smart Innovation, Systems and Technologies, vol 72. Springer, Cham.
- Mohammed Maree, Mohammed Belkhatir, Fariza Fauzi, **Muath Sabha**, Multiple Ontology-based Indexing of Multimedia Documents on the World Wide Web, 8th International KES-INTELLIGENT DECISION TECHNOLOGIES, At Tenerife, Spain, June 2016.
- Ramzi N. Sansour, Nidal Kafri, and **Muath N. Sabha**, A Survey on Mobile Multimedia Application Development Frameworks, The Third International Conference on Digital Information and Communication Technology and its Applications (DICTAP2013), Ostrava, Czech Republic, July 8-10, 2013.
- **Muath Sabha** and Philip Dutré, Feature-based texture synthesis and editing using Voronoi diagrams, sixth annual international symposium on Voronoi diagrams in science and engineering (ISVD) 2009, IEEE Computer Society and American Mathematical Society, proceedings June 23-26, 2009, pages 165-170, Copenhagen, Denmark.
- **Muath Sabha** and Philip Dutré, ImageWelding for Texture Synthesis, Vision Modeling and Visualization 2006, IEEE Computer Society, proceedings November 22-24, 2006, pages 97-104, Aachen, Germany.

### Publications in Local Conferences, not Published in Proceedings

- **Muath Sabha** and Philip Dutré, Fast Pixel-Based Texture Synthesis with Exact Neighborhood Matching, First Flemish Mini-Symposium for Computer Graphics, July 14, 2005, Haselt, Belgium.
- **Muath Sabha** and Philip Dutré, Image Melting using Patch-Based Texture Synthesis, Second Flemish Mini-Symposium for Computer Graphics, July 13, 2006, Leuven, Belgium.
- **Muath Sabha** and Philip Dutré, Texture Synthesis using Voronoi Diagrams, Third

Flemish Mini-Symposium for Computer Graphics, July 12, 2007, Haselt, Belgium.

### Technical Reports

- Muath Sabha, and Philip Dutré. A fast texture synthesis technique using spatial neighborhood. Technical report CW400, Katholieke Universiteit Leuven, Departement Computerwetenschappen, September 2005.
- Muath Sabha, and Philip Dutré. Feature-Based Texture Synthesis using Voronoi Diagram. Technical report CW492, Katholieke Universiteit Leuven, Departement Computerwetenschappen, May 2007.

### Old publications

- Al-Gamal Y., **Sabha M.**, and Hashem M., "A Proposed Model of IP over ATM" IEEE Networking, Alexandria-Egypt, 1998.
- Abul-Dahab M., **Sabha M.**, Fadda K. and Abu-Suaifan W., "A New Algorithm for Memory Management of Viterbi Decoder", ERSIC, Cairo-Egypt, 1997.

### Reviewer in Journals and Conferences

The Computer Journal, Oxford University Press, Thomson Reuters  
Elsevier Editorial System for Digital Signal Processing  
The International Arab Journal of Information Technology: IAJIT  
MedICT  
HIS

### AWARDS

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Full scholarship from the BTC for PhD in the KULeuven

Teaching Assistantship and MSc Scholarship from AASTMT

Honored students scholarship in the last two years of my BSc from the AASTMT

Al-Maqdisi Research fund, Digital Heritage

UniGove, Erasmus+ project for university governance