

Al-Nachar Rabih

PhD in Computer Engineering

Contact Information »	
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Personal Information ▾

Nationality:	Lebanese
Resident of:	Lebanon
Birth date:	16 Apr, 1982
Gender:	Male
Marital Status:	Married
Number of Dependents:	2

Skills ▾

Skill	Level	Years practiced
MS Word, Excel, Access, Power Point, MS Project	Excellent	More than 10 years
C, C++, C#, Arduino, Python, MATLAB, MPLAB	Excellent	More than 10 years
Pispice, Xilinx, FPGA, AutoCAD, Primavera	Very good	More than 5 years
Fiber optics, IP Telephony, Computer Vision	Very good	More than 5 years

Basic Courses ▾

Degree	Basic Courses
BS	Computer Networking, Digital Control, Telecommunications, Microprocessors, Artificial Intelligence, Computer Architecture
MS	Database, Microcontrollers, Digital Signal Processing, Project Management, Image Processing, Electromagnetism, Fiber optics, Information System and Error Correction, Estimation and Detection, Teletraffic Engineering, Wireless Communication, Signal Transmission

Languages ▼

Language	Level	Years practiced
English	Fluent	More than 10 years
French	Fluent	More than 10 years
Arabic	Fluent	More than 10 years

Education ▼

University of Versailles Saint-Quentin (UVSQ)-
France.

Degree:

**PhD in Computer Engineering/
Automation/Signal Processing**

November 2014

Thesis: Develop vision operators for robotic applications: Robot-Environment and Robot-Human interactions (Image Processing).

Published papers:

- I. Dagher and R.Nachar. "Face recognition using IPCA-ICA algorithm", IEEE Transactions on Pattern Analysis and Machine Intelligence, pp: 996-1000, April, 2006.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Image registration based on edge dominant corners", 9th International Conference on Computer Vision, Theory and Applications, Lisbon, Portugal, pp: 433-440, January 5-8, 2014.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "A robust edge based corner detector", 17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, pp: 242-246, April 13-16, 2014.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Polygonal Approximation of an Object Contour by Detecting Edge Dominant Corners Using Iterative Corner Suppression", 9th International Conference on Computer Vision, Theory and Applications, Lisbon, Portugal, pp: 247-256, January 5-8, 2014.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "A robust edge based corner detector (EBCD)", IJIG journal, vol.14, August 2014.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Towards an automatic image registration technique using edge dominant corners primitives", ICAE journal, vol. 22, no. 1, pp. 1-19, August 2014.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Breaking down Captcha using edge corners and fuzzy logic segmentation/recognition technique", SCN journal, vol. 8, pp. 3995-4012, December 2015.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Minutiae and Corner Detection in Fingerprints without Image Enhancement for Real Time Recognition", 8th International Conference on Information, Intelligence, Systems & Applications (IISA), August 2017.
- R.Nachar, E.Inaty, P.Bonnin and Y.alayli. "Hybrid minutiae and edge corners feature points for increased fingerprint recognition performance", Pattern Analysis and Applications journal, pp. 1-12, 10.1007/s10044-018-00766-z, December 2018.

UNIVERSITY OF BALAMAND

Balamand EL-Kurah, Lebanon

Degree:

Masters – Telecommunication Engineering

July 2005

Thesis: Computer vision: Face Recognition Using Sequential_IPCA_ICA Algorithm
This topic was published as a paper in IEEE magazine in 2005.

Graduated with a very good degree and a GPA of 93 over 100.

UNIVERSITY OF BALAMAND

Balamand El-Kurah, Lebanon

Degree:

Bachelors – Computer Engineering

July 2003

BS project: Voice compression using ADPCM

Experience ▼

Field	Level	Years of Experience
Programming: Pascal, C, C++,C#, Matlab.	Fluent	More than 10 years
Logic Circuits: Xilinx, Altera.	Fluent	More than 5 years
Microcontrollers: MPlab, Proteus, Arduino.	Fluent	More than 5 years
Networking: Hardware, Software	Fluent	More than 5 years
Telecommunication	Fluent	More than 5 years

Working Experience ▼

Company	Working Fields	Year of Employment
1. LibancoSource-Koura Leading Programing company Part of EnfoTrust Networks (American company) Tel: (06)950994	- C++ Windows Services - C# Windows Applications - SQL - Network configuration (Windows Server 2003)	2005-2006
2. Modern School-Akkar Tel: (06)693995	Teaching Math for Secondary classes	2006-2010
3. MTSC (Modern Technology & Science Center)-Akkar Tel: (06)890063	Director	2008-2009
4. Arts Science & Technology University in Lebanon Tel: (09)211072-(09)210452	Part time Instructor in faculty of sciences	2009-2012
5. University Of Balamand	Part time Instructor in IFFT Full time instructor in IFFT	2012-2014 2014 till now

Offered Courses ▼

University	Courses
AUL	Discrete Math, Signal & Systems, NetworkingI+Lab, ProgrammingI+Lab, Programming II+Lab, CommunicationI+Lab, Computer Organization+Lab, ElectronicsI+Lab and Operating System,
UOB	Electrical Circuits+Lab, ProgrammingI (C++)+Lab, ProgrammingII (C#)+Lab, Microcontroller+Lab (PIC18F4520), Digital Electronics+Lab (Altera), Mobile Robots, Signals and systems, Digital Signal Processing, Power electronics and FPGA.

Activities/Responsibilities in IFFT/UOB ▼

Activity/Responsibility	Description
-VEX Robotics	Supervision of the IFFT team while preparing and participating this national competition for two years.
-Robotic High Schools competition	Supervision of the IFFT Akkar High schools robotic competition including training the participating teams.
-Chairman of Telecom/Networks Department	In IFFT since the 2017-2018 academic year.

Awards ▼

1. **Student Excellence Award:** by the professors of faculty of engineering.
2. **Alma Maalouf Award:** for the best research in the faculty of engineering.
3. **Syndicate Of Engineers Award.**