

## *Curriculum vitae*

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**Nouar AlDahoul**

Malaysia – Kuala Lumpur

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### **Personal Information**

**Sex:** Female.

**Birth date:** 1983.

**Nationality:** Syrian.

**City:** Damascus

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### **Education and Qualifications:**

**B.Sc Certificate:** Damascus University - Faculty of Electrical and Mechanical Engineering - Department of Computer, Control and Automation Engineering.

**Average:** 78 % very good (first graduating student).

**Period of Study:** 5 years.

**Graduation year:** 2008

**M.Sc Certificate:** Damascus University - Faculty of Electrical and Mechanical Engineering - Department of Robot Engineering and Programming.

**Average:** 85.6 % Excellent.

**Thesis:** FPGA based Real Time Motion Detection

**Graduation year:** 2013

**Current Education:** PHD candidate in International Islamic University Malaysia - Department of Mechatronics Engineering.

**Thesis:** Deep Reinforcement Learning for Autonomous Agent in unstructured environment.

**Graduation year:** 2018 (expected)

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### **Publications:**

- 1) Online Sequential Extreme Learning Machine Based Functional Magnetic Resonance Imaging Decoder *Nouar AlDahoul and Zaw Zaw Htike* , Adv. Sci. Lett. 21, 3489-3493 (2015)
- 2) A Very High Speed Field Programmable Gate Array-Based Sudoku Solver, *Nouar AlDahoul, Zaw Zaw Htike, and Mouayad Zarzar* , Adv. Sci. Lett. 21, 3510-3514 (2015)
- 3) An Field Programmable Gate Array Based Embedded Vision System for Real-Time Motion Detection ,*Nouar AlDahoul and Zaw Zaw Htike* , Adv. Sci. Lett. 21, 3569-3573 (2015)

- 4) Hierarchical Gaussian Reinforcement Learning for Path Planning in Uncertain Environments  
Nouar Aldahoul, Zaw Zaw Htike, Rini Akmeliawati, Amir Akramin Shafie and Sheroz Khan, International Journal of Applied Engineering Research (IJAER) Volume 10, Number 8 (2015) pp. 20029-20040
  - 5) Reinforcement Learning Based Techniques in Uncertain Environments: Problems and Solutions, Nouar Aldahoul, Zaw Zaw Htike, Rini Akmeliawati, Amir Akramin Shafie and Sheroz Khan, International Journal of Applied Engineering Research (IJAER) Volume 10, Number 8 (2015) pp. 20055-20066
  - 6) Hierarchical extreme learning machine based reinforcement learning for goal localization  
Nouar Aldahoul, Zaw Zaw Htike, Rini Akmeliawati, International conference on mechanical, automotive and aerospace engineering (2016).
  - 7) Utilizing Hierarchical Extreme Learning Machine based reinforcement learning for Objects sorting. Nouar Aldahoul, Zaw Zaw Htike. The second International Conference on Intelligent Systems Engineering (ICISE) (2018).
  - 8) Real-Time Human Detection for Aerial Captured Video Sequences via Deep Models.  
Nouar Aldahoul, Aznul Qalid Md Sabri, and Ali Mansoor. Computational Intelligence and Neuroscience journal. (2018).
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### **Extra Courses**

- English Courses: ALC (American Language Center ) for 5 years and finishing last level 8B (levels available from 0A to 8B) .
- Japanese Course: for three years.
- Microcontroller Course
- PLC Course
- Orcad Course (capture + pspice + layout).
- Printed circuit design Course.
- C++, OOP Programming Course.
- Java Programming Courses.
- MCSDT Course.
- A+ and Network+ Courses.

### **Skills:**

- Microcontroller – Arduino – raspberry pi- Field Programmable Gate Array.
- Matlab – SQL – C++ - C# - Java – OOP.
- Python – libraries (NumPy – Pandas – Keras - Tensor flow)
- Machine Learning – Deep learning – feature learning – reinforcement learning – image and video classification – Computer Vision – pattern recognition – Natural Language Processing.

- Research and development.

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### **Job Experience:**

- Instructor at Yarmouk Private University in Syria from 2009 to 2013
- Lab Instructor at Syrian Private University in 2013
- Teaching in Damascus University in 2010.
- Supervisor for many applied, Junior and senior projects from 2009 to 2013.
- Tutor and demonstrator in International Islamic University Malaysia from 2014-2017.
- Research assistant in IIUM university in deep reinforcement learning from 2014 - 2018
- Research assistant in Malaya University in deep reinforcement learning from 2016 to 2018

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### **Teaching Experience**

Logic circuit design - VHDL and FPGA design - Microprocessor and Microcontroller - Computer architecture and organization - Electric circuits - Electronic circuits – Signal and System - Signal processing - Image processing - Computer vision - Machine learning – control system design – C++ programming – Introduction to algorithm and data structure – object oriented programming.

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### **Languages:**

- ***Mother Language:*** Arabic.
- ***Second Language:*** excellent English.
- ***Other Language:*** good Japanese.

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### **Interests:**

Teaching + Learning foreign Languages + Traveling + Sport.

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### **Other activities:**

- Participating in the judgment team of the first Syrian robotics competition (FLL) 2009.
  - Participating in the judgment team of the Second Syrian robotics competition (FLL) 2010.
  - Participating in the Japanese speech contest 2008.
  - Participating in the Japanese speech contest 2009.
  - Working as an English translator in IT Culture Magazine
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**References:**

\* Assi.Prof. Ali Mohammed Mansoor [ali.mansoor@um.edu.my](mailto:ali.mansoor@um.edu.my)

\* Assi.Prof. aznul sabri [aznulqalid@um.edu.my](mailto:aznulqalid@um.edu.my)

\*\* Assoc. Prof. Zaw Zaw Htike [zaw@iium.edu.my](mailto:zaw@iium.edu.my)

\*\* Prof. Rini Akmelawati [rakmelia@iium.edu.my](mailto:rakmelia@iium.edu.my)

\*\*\* Dr. Kamal Kamar. [kamal.kamar10@gmail.com](mailto:kamal.kamar10@gmail.com)

\*\*\*\* Assoc.Prof. Mohammad Swidan [msoueidan@netcourrier.com](mailto:msoueidan@netcourrier.com)

\* University Of Malaya

\*\* International Islamic University Malaysia – Mechatronics Engineering  
Department

\*\*\* Damascus University – Faculty of Mechanical & Electrical Engineering.

\*\*\*\* Yarmouk Private University – Faculty of ICE.

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**END of CV**