

HASSAN AL-ATAT

Objective To obtain a challenging position within the field of Diagnostics and Prognostics that will use my educational and experience background in the field of electrical, computer and industrial engineering.

(1) Ph.D. in Industrial Engineering

Jan. 2004 – Now

University of Cincinnati

Cincinnati, Ohio, USA

- GPA: 3.814 (out of 4.000)
- Research Interest: Advanced Prognostics and Predictive Maintenance.
- Courses Completed:
 - Industrial Engineering Courses: Intelligent System Theory, Artificial Intelligence in Manufacturing, Advanced Quality Engineering, Introduction to E-manufacturing, System Safety, Occupational Safety and Health Engineering, Supply Chain Management, Epidemiology.
 - Electrical Engineering Courses: VLSI Design Automation, VLSI System Design, Compiler Theory, VLSI Test and Validation, Compiler Optimization, Automata of Formal Languages, Physical VLSI Design, Computer Architecture, Fundamentals of MEMS.

Education

(2) B.Sc. in Computer Engineering

Aug. 1998 - May 2003

Lebanese American University

Byblos, Lebanon.

- GPA: 3.50
- Accredited by ABET (The Accreditation Board of Engineering and Technology)
- Senior Design Project (Aug. 2002 - Dec 2002)
 - Objective: Register Binding for FPGA's with embedded memories.

Diplomas and Certifications

(1) OSHA 30 hour General Industry Training

May 2007 - Now

OSHA Campus www.oshacampus.com

July 2007 – Currently University of Cincinnati Ohio, U.S.A

Research Assistant in Intelligent Maintenance Systems Center

- Conducting research in the field of predictive maintenance and embedded prognostics.
- Working on project with GM for prognostics of wheel speed sensor.
- Working on the EcoCar project.
- Working in the area of embedded prognostics and vehicle health management.

Work Experience

Jan. 2006 – May 2007 University of Cincinnati Ohio, U.S.A

Research Assistant in the OSH EE Lab Department of Industrial Engineering

- Conducting research in the field of performance optimizations for manufacturing enterprises.

Sept. 2005 – Dec 2005 University of Cincinnati Ohio, U.S.A

Assistant for the Non-Destructive Evaluation (NDE) Lab Department of Aerospace Engineering

- Using NDE Methods (primary Eddie Current) in experiments for the evaluation of homogeneity of different alloys.

June 2005 – Sept. 2005 University of Cincinnati Ohio, U.S.A

Research Assistant in the Digital Design Environments Lab (DDEL) Department of Electrical and Computer Engineering

- Conducting research in the field of Reconfigurable Computing and Field Programmable Gate Arrays (FPGAs).

June 2004 – Sept. 2004 University of Cincinnati Ohio, U.S.A

Assistant for the Non-Destructive Evaluation (NDE) Lab Department of Aerospace Engineering

- Using NDE Methods (primary Eddie Current) in experiments for the evaluation of homogeneity of different alloys.

Feb. 2003 – July 2003 Lebanese American University

Byblos, Lebanon

Instructor for the Department of Electrical and Computer Engineering

- Instructor for the Reconfigurable Computing Laboratory.
- Supervised and taught 60 students the methods for developing/implementing applications on FPGA boards (Altera).

June 2000 – Sept. 2000 Libancell

Beirut, Lebanon

Wireless Communication Engineering Intern.

- LibanCell is one of the two cell phone provider companies in Lebanon.
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Computer Skills

<u>Operating Systems:</u>	Dos, MS Windows, Unix
<u>Numerical Methods Tools:</u>	Matlab, Mathematica
<u>Data Acquisition Tools:</u>	NI LabView
<u>Statistical Tools:</u>	SAS, R
<u>Computer Aided Design:</u>	AutoCAD, SolidEdge
<u>Computer Programming:</u>	C, C++, JAVA, Visual Basic
<u>Database Tools:</u>	ORACLE, SQL, Microsoft Access
<u>Electric Circuits:</u>	Spice, Magic, LogicWorks, DigitalWorks
<u>Project Mgmt. Tools:</u>	MS Project

Language Skills

- Fluent in English (verbal and written)
 - Fluent in Arabic (verbal and written)
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Publications

- Wang, Al-Atat, Ghaffari, Lee and Xi.” Prognostics of Automotive Sensors: Tools and Case Study”. To appear in proceedings of MFPT 62, May 2008.
 - Al-Atat, Genaidy, Shell, Karwowski, Ghanem, Le. “**The Manufacturing Enterprises Diagnostic Tool: A quick and efficient self-diagnostic tool for small and medium size manufacturers**”. Human Factors and Ergonomics in Manufacturing, Nov. 2007, In press.
 - Hassan Al-Atat, Iyad Ouais. “**Register Binding for FPGAs with Embedded Memory**”. FCCM 2004: 167-175
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References

- References are available upon request.
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