



PERSONAL INFORMATION




Mohammad Shadi Alhakeem

 Berlin, Germany

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Sex Male | Date of birth \*\*\*\*\* 1978 | Nationality Syrian

WORK EXPERIENCE

Nov 2015 - Now

Visiting Postdoctoral Researcher

Postdoctoral Researcher, Faculty of Electrical Engineering and Computer Science, Department of Telecommunication Systems, Technical University of Berlin – Germany.

- Research Project: Real-Time Scheduling in Many-Core Systems.  
A research project funded by the AVEMPACE scholarship program, coordinated by the Technical University of Berlin.

Apr 2014 – Oct 2015

Research Associate

Research Associate, Faculty of Electrical Engineering and Computer Science, Department of Telecommunication Systems, Technical University of Berlin – Germany.

- Research Project: Software-Based Safety Mechanisms in Many-Core Systems.  
A research project funded by the Software Campus project, in cooperation with Robert Bosch GmbH.
- Lecturing: KBS Project and Seminar – Hot Topics in OS & DS. (The teaching medium is mainly in English)

Dec 2013 – Apr 2015

Visiting Postdoctoral Researcher

Postdoctoral Researcher, Faculty of Electrical Engineering and Computer Science, Department of Telecommunication Systems, Technical University of Berlin – Germany.

- Research Project: Energy-Aware Scheduling in Multi-Core Systems.  
A research project funded by the EPIC scholarship program, coordinated by Cardiff Metropolitan University.

Jan 2011 – Dec 2013

Academic Staff Member

Academic staff member, Faculty of Informatics Engineering, Al-Baath University - Homs – Syria.

- Lecturing: Operating Systems – Advanced Real-time Systems – Applied Numerical Analysis.
- Supervising Students' Graduation Projects.
- Member of the Projects' Appraisal Committee.

Feb 2012 – Oct 2013

Visiting Lecturer

Lecturer (Part-Time), Faculty of Informatics and Communication Engineering, Arab-International University - Daraa – Syria.

- Lecturing: Operating Systems – Distributed Systems - System Programming. (The teaching medium is mainly in English).
- Supervising Students' Graduation Projects.

Oct 2012 – Dec 2013

Visiting Lecturer

Lecturer (Part-Time), Faculty of Informatics Engineering, Damascus University – Damascus – Syria.

- Lecturing: Operating Systems – Linux Practicum.
- Supervising Phd and Master Students.
- Supervising Students' Graduation Projects.
- Member of the Projects' Appraisal Committee.

- June 2005 – Dec 2010 **Research Associate**  
Research Associate, Faculty of Electrical Engineering and Computer Science, Department of Telecommunication Systems, Technical University of Berlin – Germany.
- Doctoral Thesis on the topic “Resource Management and Performance Control for Staged Design-Based Services”.
  - Modelling and Control Theoretic Approaches for the Staged Event-Driven Architecture.
  - Resource Management and CPU Scheduling in Multi-Core Systems.
  - Performance control for staged internet services.
- June 2003 – Dec 2004 **Teaching Assistant**  
Teaching Assistant, Faculty of Informatics Engineering, Al-Baath University – Homs – Syria.
- Lab Instructor and Technical Support.
- July 1999 – June 2003 **IT Specialist**  
IT Specialist, SHAMCC – Damascus – Syria.
- Providing Hardware and Software Solutions.
  - Designing IT Systems and Technical Support.
- Nov 2015 – Now **Volunteer Adviser for Refugees**  
Union of Syrian Students and Academics, Familientreffpunkt Berlin.
- Feb 2014 – Dec 2015 **Volunteer Scientific Auditor & Translator**  
Syrian Researchers Initiative, Website: [www.syr-res.com](http://www.syr-res.com)

## EDUCATION

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- 2005 - 2010 **Doctor of Engineering**  
Dr.Eng. Technical University of Berlin - Germany, Faculty of Electrical Engineering and Computer Science, Department of Telecommunication Systems.
- Doctoral Thesis: “Resource Management and Performance Control for Staged Design-Based Services”. Supervisor: Prof. Dr. Hans-Ulrich Heiß.
  - With the predicate “Good”.
  - Relevant Coursework: Discrete Mathematics – Stochastic for Informatics – Theoretical Foundations of Computer Science - Cluster Computing – Distributed Systems – Internet Protocols and Applications – Security in Computer Systems.
- 2000 - 2001 **Postgraduate Diploma**  
Diploma in Mathematics Section Informatics, Damascus University – Syria.
- Graduation Project: “Designing and Implementing an Intelligent Exam System”.
  - With the predicate “Very Good”.
- 1995 - 1999 **Bachelor**  
Bachelor in Mathematics Section Informatics, Damascus University – Syria.
- One of the top five graduates at the Department.
  - With the predicate “Very Good”.

## INDEPENDENT COURSEWORK

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- 2015 Automated Visual Software Analytics, Hasso Plattner Institute, Germany.
- 2015 Web Technologies, Hasso Plattner Institute, Germany.
- 2015 Management and Project Management, Technical University of Berlin, Germany.
- 2015 International Management, Technical University of Berlin, Germany.
- 2015 Leadership in Digital Transformation, SAP, Germany.
- 2014 In-Memory Data Management, Hasso Plattner Institute, Germany.
- 2008 Server Computing Summit, Hasso Plattner Institute, Germany
- 2006 Scientific Writing in Engineering Sciences, Technical University of Berlin, Germany

PERSONAL SKILLS

Mother tongue(s)	Arabic				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
German	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2
	DSH Deutsche Sprachpruefung fuer den Hochschulzugang				
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Excellent communication skills in a variety of forms and contexts, gained through dealing with scientists as a researcher, with customers as an IT specialist, and with students as lecturer and supervisor.
- Ability to interact and collaborate with others effectively in culturally or linguistically diverse contexts, gained through working consistently with people of different backgrounds, and through attending and participating in many courses, workshops and conferences in different countries.

Organisational / managerial skills

- Excellent organizational skills with ability to prioritize work and to meet deadlines.
- Excellent leadership and team management skills.
- Experience in Agile SCRUM project management.

Computer skills

- C/C++, C# , Java, Shell Scripting.
- Eclipse, Visual Studio.
- Linux, Windows.
- GIT, ISIS2 Moodle, TYPO3, Redmine.
- MS-Office, Latex/Textmaker, JabRef, Adobe Acrobat.
- Möbius Modeling Environment.

Driving licence

- Class B driving licence.

PUBLICATIONS

- P. Munk, M. S. Alhakeem, R. Lisicki, H. Parzyjegla, J. Richling, and H.-U. Hei. Toward an Adaptive Safety Framework for COTS Many-Core Systems. In proceedings of the 11th European Dependable Computing Conference EDCC 2015, September 2015.
- M. S. Alhakeem, P. Munk, R. Lisicki, H. Parzyjegla, and G. Mhl. A Framework for Adaptive Software-Based Reliability in COTS Many-Core Processors. In proceedings of ARCS 2015 - 28th International Conference on Architecture of Computing Systems, March 2015.
- M. Diener, E. H. M. Cruz, M. A. Z. Alves, M. S. Alhakeem, P. O. A. Navaux, H.-U. Hei. Locality and Balance for Communication-Aware Thread Mapping in Multicore Systems. In proceedings of Euro-Par 2015.
- M. S. Al-Hakeem. Resource Management and Performance Control for Staged Design-Based Services. Phd Thesis, February 2011. TU-Berlin, Germany.
- M. S. Al-Hakeem, J. Richling, and H.-U. Hei. Performance Guarantees for Staged Design Based Services. In Workshop on System Communication and Engineering in Computer Science, October 2010.
- M. S. Al-Hakeem and H.-U. Hei. Adaptive scheduling for staged applications: The case of multiple processing units. In Fifth International Conference on Internet and Web Applications and Services (ICIW 2010). Los Alamitos, CA, USA: IEEE Computer Society, May 2010, pp. 51–60.
- M. S. Al-Hakeem, J. Richling, G. Mhl, and H.-U. Hei. An adaptive scheduling policy for staged applications. In Fourth International Conference on Internet and Web Applications and Services (ICIW 2009). IEEE, May 2009.