

## Curriculum Vitae

### Mousa A. M. A. Albakal



#### PERSONAL INFORMATION

Surname Albakal  
First Name Mousa Aziz Mohammed Ali  
Birth Date 21. Januar 1982  
Family Status Married, No Kids  
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#### HIGHER EDUCATION

10/2005 - 06/2011 **UNIVERSITY OF SIEGEN**, Germany  
Study at Science and Technology Faculty, Focus: Mechatronics  
Master Thesis: „Development of UoB-iLab using the iLab Shared Architectures“ (Grade: 2,3 = A)  
Degree: Master of Science (M.Sc.) (Grade 2,5 = A)  
10/1999 - 07/2004 **UNIVERSITY OF BAGDAD**, Iraq  
Studies of Mechatronics  
Bachelor work: „Software Development of Real-time Face Recognition Syster using Eigenfaces/PCA“ (Grade 94% = A+)  
Degree: Bachelor of Science (B.Sc.) (Grade 77% = A)

#### SCHOOL EDUCATION

07/1999 **AL MANSOUR HIGHSCHOOL**, Iraq  
Certificate: Baccalaureate (Note 84% = A)

#### WORK EXPERIENCE

Since 03/2014 **ALKAHEEL NETZWERK GMBH**, Iraq  
Engineer at a service company

#### PROJECTS

Seit 04/2014 **ALKAHEEL CONTROL, SECURITY, AND MONITORING ROOM**, Kerbala  
Network Test Engineer at a Data Center

- Determine with the developers the solution procedure of network problems.

	<ul style="list-style-type: none"> <li>• Analysis of the network requirements and writing the test cases.</li> <li>• Setup and maintenance of the network environment.</li> <li>• Implement the "backbone network" of the entire control room project, including wireless links, sectors, route access point (RAP), MAP (mesh access point), connections and cabling of the various racks in the data center with fiber optic cables.</li> <li>• Carry out of Piko stations over the network of RAPs and MAPs with dudu.</li> <li>• Carry out of "Core Network", "Power Network" and "Disaster System".</li> <li>• Hands On Video-Analysis-Software (VAS) and Video-Management-Software (VMS) using Milestone XProtect.</li> <li>• Hands-on "Voice Network" and "Call Manager"</li> </ul>
08/2015 - Now	<b>UNIVERSITY COLLEGE OF HUMANITIES STUDIES</b> , Najaf, Iraq „Assistant Lecturer, Department of Computer Engineering“ <ul style="list-style-type: none"> <li>• Perform various lab experiments with LightSheet Imaging and LightField Imaging using ImageJ, CUDA, Amira..</li> <li>• Teaching the undergraduate course in computer applications with Matlab.</li> <li>• Supervise of last year's degree projects, a member of the Examination Committee, participated in many departmental activities.</li> <li>• Teaching Undergraduate Labs in DSP and Digital Communication.</li> </ul>
03/2013 - 03/2014	<b>Department of Investing and Strategy Projects</b> , Kerbala Engineer: <ul style="list-style-type: none"> <li>• Responsible for the preparation of feasibility studies for various industrial projects such as "waste recycling plant", "dairy production plant" and "date production plant".</li> </ul>
01/2011 - 01/2013	<b>Fire-Alarm-Specialist, Ein-AlIraq (Pvt.) Limited</b> , Bagdad, Iraq, <ul style="list-style-type: none"> <li>• Responsible for the general design and integration of the fire alarm system, a complete security project was set up and operated at the Al-Hartha power station, Basrah, south of Iraq. Programming of BOSCH FPA 5000 panels and Duran panels, hands-on sirens, cameras, Motorola walkie-talkie, gaz detectors, explosive and toxic detectors. I participated in a training course at the Ateksis company in Turkey for the programming of Bosch and Duran safety panels.</li> </ul>
02/2010 - 12/2011	<b>Mechatronics Lab Team member</b> , Technical Institute of Bagdad, Department für Mechanical Engineering. Baghdad, Iraq <ul style="list-style-type: none"> <li>• responsible for the construction, installation and operation of the Mechatronics Lab, installation and integration of an automation system; FestoSiemens Didactic (MPS stations), programming of Siemens PLCs with industrial micro memory cards (MMC), problem solution with MMC, programming of the S7-300 CPU, integration of the Festo pneumatic system. Programming of SIMATIC HMI</li> </ul>
02/2009 - 02/2011	<b>Software &amp; IT-Specialist</b> , Amal Alsharq (Co. Ltd.) for Construction Materials Najaf, <ul style="list-style-type: none"> <li>• Responsible for the networking &amp; computer department in the company, the administration and programming of goods order inventory system and management of goods and articles of various entities within the company.</li> </ul>

## LANGUAGES

Arabic (Mother tongue)  
English (Very Good)  
German (Good)

## Computer Skills

- Very good knowledge in MATLAB, SIMULINK, Assembly language LaTeX und MS Office.
- Good knowledge in Mikrocontroller C167 s/w, Keil µ Vision IDE.
- Good knowledge in CAD CAM s/w; Surfcam für 3D milling.
- Good knowledge in Festo Didactic s/w, FluidSIM.
- Good knowledge in PLC s/w, Simatic S7, Wincc, Simatic HMI, Mobile 170.
- Good knowledge in Computer Vision with LabView.
- Good knowledge in VAS and VMS Milestone XPerfect.
- Good knowledge in Maho CNC-Programming, G-Code.
- Good knowledge in Networking s/w, packet tracer, GNS3, Dude.
- Good knowledge in C++, AutoCAD, Java oop.
- Good knowledge in Microscopy s/w, ImageJ, CUDA, Amira.
- Basic Knowledge in VHDL desgn, XILNIX SE.

## Scholarship / Memberships

04/2005 - 01/2008	DAAD (Deutscher Akademischer Austausch Dienst) Scholarship for Foreign Students.
Seit 06/2014	Member at Iraqi Engineers Union.
06/2004	Beste Student of the year 2004, Mechatronics, University of Bagdad.
08/2001	1. Place out of 150 Sophomores With a distinction certificate in the national competition at the University of Bagdad.
01/2015	Cisco certified engineer, CISCO ID (CSCO): CSCO12743254.
01/2014	Certificate of the Iraqi Society for Occupational Safety and Health Nr. 0494/14.

Baghdad, 15. May 2017  
Mousa Albakal

