

# Dipl.-Ing. Muhammad Abduh

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## OBJECTIVE

Seeking a data warehouse or software development consultant position in the Information Technology or Telecommunication industry where my knowledge, abilities, and experience in consulting can effectively contribute to the successful and profitable operation of the company.

## SUMMARY

I am an experienced and ambitious software developer with excellent capabilities in the analysis and design of data warehouse applications looking for a challenging new role in the IT or telecommunication industry. A hard worker with broad experience on software development and solid knowledge of telecommunication, I will be a valuable addition to any team.

## EDUCATION

Aachen University of Technology (RWTH Aachen), Germany.

M.S. in Electrical Engineering (Major: Computer Science), May 1995.

## PROFESSIONAL EXPERIENCE

### Digital Ratio, Eschborn, May 2010 - present

Development of data warehouse applications (e.g. data marts for marketing, campaign management). Development of software for commissioning, system integration. Development of Qlik Sense and QlikView applications. Development of software for billing and reporting of products for house automation. Development of software for data quality management, sales support, workflow system.

### COLT Telecom, Frankfurt, Jan 2001 - April 2010

Designed and developed the software NTQR (Network Traffic and Quality Reports) to monitor COLT pan-European Voice networks (Siemens EWSD, Nortel DMS) and VoIP networks (Cisco, Sonus). Developed IMS converged applications that run under Oracle Communications Converged Application Server (OCCAS). Developed NPT (Number Portability Tool) for Germany, France and Italy. Developed provisioning tool ProviDSL for DSL services. Developed provisioning tool PROCEN for VoIP services. Developed provisioning tool VM\*Admin for Voice Mailbox provisioning. Manage the capacity of the networks e.g. cost based optimization of Interconnection with Deutsche Telekom and other network operators. Participated in NGN project with SIEMENS to install the SIEMENS SURPASS NGN, HiE9200 solution.

### **MCI Worldcom, Frankfurt, Aug 1999 - Dec 2000**

Winner of "Star Performer Award 2000". Planned SDH transmission network esp. metro city rings and customer access. Monitored the utilization of active and passive network elements e.g. ADM, DXC, DDF, ODF etc. Developed WEB-based DXC monitoring tool. Maintained and updated the database of metro networks. Created network documentation. Designed and built metro networks for circuit provisioning. Supported Pre-Sales with information in term of bandwidth availability, co-location services etc.

### **o.tel.o Communications, Cologne, Apr 1997 - Jul 1999**

Developed Network Planning Tools: POI Design Tool, Topology Design Tool, Network Simulation Tool and Traffic Analysis Tool. Participated in design and dimension of o.tel.o telecommunication networks. Planned network interconnects with other operators e.g. Deutsche Telekom, E-PLUS, StarTelecom, NetCologne.

### **Institute of Laser Technology, Aachen University, Oct 1996 - Mar 1997**

Designed and implemented software for LASER measurements.

### **Institute of Communication Networks, Aachen University, Jul 1995 - Jun 1996**

Developed GUI software for design of GSM network topology. Develop network simulation tools. Implemented modules for cost-based network optimization using various algorithms.

### **Institute of Product Engineering, Aachen University, Oct 1992 - May 1994**

Participated in project to develop software for document management system of product engineering tools e.g. CAD, CAP and NC system in heterogeneous operating systems and network environments. Implemented the gateway module TCP/IP <-> DECnet.

### **Institute of Process Engineering, Aachen University, Jun 1990 - Sep 1992**

Developed software for vapor plant modeling and simulation.

## **COURSES**

#### **Teradata DWH Workshop**

Teradata, Frankfurt, Jun 28 - Jun 29, 2011

#### **Pentaho BI Suite Bootcamp**

Lianis, Frankfurt, Feb 22 - Feb 26, 2010

#### **Enterprise Architect (UML Modeling Software from Sparx Systems)**

Integrata, Munich, Nov 26 - Nov 27, 2009

#### **Software Architecture - Methods and Approaches**

Integrata, Frankfurt, Nov 19 - Nov 21, 2008

#### **Oracle 10g Data Warehouse Implementation & Administration**

Comelio, Frankfurt, Aug 07 - Aug 09, 2006

#### **SURPASS Solutions and Product Introduction**

Siemens, Frankfurt, Nov 30 - Dec 2, 2004

#### **Optical Information Workshop**

Nortel Networks, Frankfurt, Sep 12, 2000

## WDM - Optical High Speed Networks

ExperTeach, Frankfurt, Jun 26 - Jun 27, 2000

## SDH - Migration and Network Design

ExperTeach, Frankfurt, Apr 17 - Apr 18, 2000

## Switching Network Planning Workshop

Nortel Networks, Frankfurt, Dec 15 - Dec 21, 1999

## F&E Course: Transmission Equipment and Network Ring Build

MCI Worlcom, London - UK, Nov 2 - Nov 5, 1999

## ADM Engineering and Planning Guidelines

Marconi Communications, Frankfurt, Oct 25, 1999

## Transmission Network Planning Workshop

Alcatel, Frankfurt, Oct 12, 1999

## F&E Course: Network Provisioning

MCI Worlcom, London - UK, Sep 21 - Sep 24, 1999

## SDH Network Design Course

Nortel Networks, Frankfurt, Sep 14 - Sep 15, 1999

## Traffic Design and Network Planning Course

Ericsson, Cologne, Jun 29 - Jul 3, 1998

## Metrica User Course

ADC Metrica, Cologne, May 6, 1998

## Project Management Course

Mannesmann o.tel.o, Cologne, Apr 7 - Apr 11, 1997

## MapInfo Professional Course

MapInfo GmbH, Cologne, Dec 17 - Dec 18, 1997

## PRISM - Sales/Marketing Forecast Database

PC - TopTraining, Frankfurt, Jan 19, 2000

## **INDUSTRIAL TRAINING**

### Manufacturing, assembling and test of measuring instruments

AMEPA GmbH, Aachen, Sep - Oct 1994

### Assembling, installing and maintaining electronic equipment

RWE AG, Frimmersdorf, Feb - Mar 1990

### Maintenance and repair of electric equipment

RWE AG, Frimmersdorf, Feb - Apr 1989

### Training course in machine tool and material processing

Siemens AG, Muehlheim, Feb - Apr 1988

## **TECHNICAL SKILLS**

### **Telecommunication**

- **Network Technologies**

IMS, VoIP, SIP, H.323, NGN, TDM, SDH/WDM, DSL

- **Network Devices**

Siemens EWSD, Nortel DMS, Cisco PGW/HSI/Gatekeeper/AS5400, Sonus ASX/PSX/GSX/NBS/DSI/EMS

- **Performance Analysis**  
Billing CDR, switch measurements, KPI, ASR, NER, PDD

## Software Development

- **Techniques**  
Design Pattern, Refactoring, DDD, TDD, UML
- **Languages**  
Java, C#, C/C++, Groovy, Ruby, Scala, Python, Perl, PHP, PL/SQL, OMB\*Plus, VBA, JavaScript
- **Java Technologies**  
Java EE, Spring DI, JPA, Hibernate ORM, SIP Servlet, JMX
- **Application Servers**  
Glassfish, JBoss, WebLogic, OC4J
- **Converged Application**  
Oracle OCCAS, Oracle OCMS
- **Web Technologies**  
XHTML/CSS, Ajax, SOAP, REST, JSON, Parlay-X
- **Web Frameworks**  
Spring MVC, .NET, Grails, Google App Engine, GWT, Struts, Ruby on Rails, Django, jQuery, Prototype, Catalyst, Template-Toolkit, Mason, mod\_perl
- **Development Tools**  
Eclipse, Ant, Maven, Gradle, JUnit, Jenkins, Subversion, Oracle SQL Developer
- **Desktop GUI Programming**  
Swing, X-Windows API, OSF-Motif, Windows SDK, MFC
- **Operating Systems**  
Solaris, HP-UX, Linux, Windows
- **Databases**  
Oracle, Teradata, MySQL, MongoDB, MS Access
- **Data Warehouse / Business Intelligence**  
Ab Initio, Oracle Warehouse Builder, Pentaho BI Suite, Qlik Sense, QlikView
- **Heuristic Algorithms**  
Genetic Algorithm, Simulated Annealing, Threshold Accepting

## LANGUAGES

German, English.

## REFERENCES

Available at <https://www.linkedin.com/in/mabduh>.