

**David Niehaus**  
**Drosselgasse 16a**  
**D-21702 Ahlerstedt**

# CURRICULUM VITAE

**Ahlerstedt, March 11, 2013**

**Phone.:** +49 4166/848781  
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**Drosselgasse 16a**  
**D-21702 Ahlerstedt**

## PERSONAL DATA:

November 21st 1969 **Date of birth**

Borken/Westphalia **Place of birth**

Married **Marital status**

German **Nationality**

Ida(\*March 6th 2006), Jette(\*May 14th 2008) **Children**

Software Architect/Engineer **Current position**

Since 1998 **Work experience**

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**CURRICULUM VITAE:** FREELANCER

**LeitEnergie, Minden 10/2011-today**

Software Architect/Engineer Position

Minden Located

Design and development of an operators diary for biogas plants, Responsibilities  
 Architecture and design modeling, tool chain definition and realisation,  
 project management as well as software implementation and test.

**ReGLaN-Health, Landau 01/2003-today**

Research Engineer Position

University of Koblenz-Landau, Landau i.d. Pfalz Located

Data Modeling and adaptive Programming, Responsibilities

**OPTIMIZATION OF THE HEALTH SERVICES PROVIDED IN RURAL  
 COMMUNITIES,**

Definition of the Meta Model, object oriented analysis and design for the  
 software, design and implementation of the graphical user interfaces,  
 planning and realization of the distributed development environment.

**Voith Engineering Services GmbH, Bremen 1/2009-3/2012**

Research Engineer/Manager Position

AIRBUS GmbH, Hamburg-Finkenwerder and Buxtehude Located

Service Oriented Architecture for Airlines (SO4A) Responsibilities  
 Definition of modeling processes, tool chain definition, training, project and  
 supplier management for the SO4A project. SO4A is funded by the German  
 government program LuFo IV.

**AIRBUS CIMPA GmbH, Hamburg 10/2008-1/2009**

Research Engineer/Manager Position

AIRBUS GmbH, Hamburg-Finkenwerder Located

Concept study within SPEEDS project: Virtual configuration and integration Responsibilities  
 of IMA modules.

Model based engineering to support Failure Mode and Effect  
 Analysis(FMEA), Fault Tree Analysis(FTA), Functional Hazard  
 Analysis(FHA) as well as the Fault Detection Specification(FDS).

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<b>CeBe-Network, Bremen</b>	<b>10/2008-12/2008</b>
Research Engineer/Manager	Position
AIRBUS GmbH, Hamburg-Finkenwerder and Buxtehude	Located
Service Oriented Architecture for Airlines (SO4A)	Responsibilities
Definition of modeling processes, tool chain definition, project and supplier management for the SO4A project. SO4A is funded by the German government program LuFo IV.	
<b>CeBe-Network, Bremen</b>	<b>1/2008-9/2008</b>
System Designer	Position
AIRBUS GmbH, Hamburg-Finkenwerder and Buxtehude	Located
Project management and a software architecture for a content management system and a 3D web-portal design.	Responsibilities
Software architecture definition, specification, project and supplier management for a distributed (on-board and off-board) web portal for future AIRBUS aircrafts.	
<b>CeBe-Network, Bremen</b>	<b>4/2007-12/2007</b>
System Designer	Position
AIRBUS GmbH, Hamburg-Finkenwerder and Buxtehude	Located
Concept design, requirement generation and validation, conceptual integration and vendor management for the on-board network server system AirLiner Network Architecture(ALNA).	Responsibilities

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**CURRICULUM VITAE: EMPLOYMENT**

**Bishop GmbH, Hamburg 1/2005-3/2007**

A380 Cabin-OMS Designer Position

AIRBUS GmbH, Hamburg-Finkenwerder Located

Concept design, requirement generation and validation, conceptual integration and vendor management for the cabin onboard maintenance system(Cabin-OMS). Responsibilities

Design and specification of a Local Maintenance Function(LMF) and a Data Loading and Configuration System(DLCS) for the Airliner Network Architecture(ALNA).

Failure Mode and Effect Analysis(FMEA) as well as the Fault Detection Specification(FDS) for ALNA hardware and software equipment.

Standardization of the maintenance data exchange via SNMP.

Standardization of the maintenance data exchange and design principles for middleware based architecture.

**Bishop GmbH, Hamburg 2/2004-12/2004**

A380 BITE Manager Position

AIRBUS GmbH, Hamburg-Finkenwerder Located

Generation, implementation and validation of BITE requirements for cabin systems, supplier audits regarding BITE: cabin intercommunication network system(CINS), cockpit door surveillance system(CDSS), cabin video monitoring system(CVMS), cabin telephone system(CTS) Responsibilities

Concept development and implementation of test software to check the BITE related communication between cabin systems and the centralized maintenance system (CMS)

Data loading coordinator

**TUTECH GmbH, Hamburg-Harburg 11/2003-1/2004**

Researcher Position

Computer Engineering VI (Distributed Systems), University of Technology Hamburg-Harburg Located

Research project: Responsibilities

KNOWLEDGE- AND EVENT PATTERN BASED TECHNOLOGY TO DO PREVENTIVE MAINTENANCE

AIRBUS, KID-Systems and the University of Technology Hamburg-Harburg Cooperation

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**Philotech GmbH, Unterhaching 10/2002-10/2003**

R & D Engineer Position

AIRBUS GmbH, Hamburg-Finkenwerder Located

Application and project planning in the scope of the German aviation research program (LuFo III) Responsibilities

Concept development and implementation of a web-based information system  
 Design of the data model and the user concept for a Logistic Support Analysis(LSA) development environment

**Westfälische-Wilhelms-Universität, Münster 1/1999-9/2002**

Programmer in the MEOW-VISUM Project Position

Concept development and implementation of a web-based teaching and training environment Responsibilities

Build up and administration of a local area network

Invitation by the Edith-Cowan-University in Perth(Australia), in the scope of the MEOW-VISUM cooperation. Aim: Concept to link the two information systems. 7-8/2000

**Engine overhaul, Lufthansa Technik AG, Frankfurt a.M. 1/1998-11/1998**

Contract of work Position

Production support, data and system servicing and solving special tasks Responsibilities

**CURRICULUM VITAE: ACADEMIC CAREER**

**TdSE 2010, Gesellschaft für Systems Engineering e.V., German Chapter of INCOSE, Munich, Germany 11/2010**

Application of the Systems Engineering Approach to a sustainable decision support system for health services Subject

**User forum on Model-Based Systems Engineering, Informatics and Cybernetics, Hamburg (Airbus), Germany 9/2010**

Validating system architecture in early design phases; Stephan Marwedel, Rainer Diekmann, David Niehaus Subject

**19th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany 7/2007**

Application of OOA to a sustainable decision support system for health services Subject

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**11th International Society for Telemedicine and eHealth (ISfTeH), Cape Town, South Africa** **11/2006**

PROVIDING HEALTH FOR RURAL COMMUNITIES Subject

**22nd meeting Artificial Intelligence (AI-98) at the University of Bremen, Bremen Germany** **9/1998**

An adaptive model for simulation and optimization of the production process (of overhauling aircraft engines) using the theory of artificial neural networks Subject

## CURRICULUM VITAE: EDUCATION

### University of Applied Science, Aachen

Diploma degree, Aeronautics and space engineering **11/1998**

Aircraft Propulsion Systems Specialization

Presentation of the diploma thesis at the 22nd meeting Artificial Intelligence (AI-98) at the University of Bremen 9/1998

An adaptive model for simulation and optimization of the production process (of overhauling aircraft engines) using the theory of artificial neural networks, in collaboration with Lufthansa Technik AG Thesis

Software to optimize the turn around time of aircraft engines, in collaboration with Lufthansa Technik AG Student project

FKA Automotive Research Center, Technical University Aachen Student assistant

Engine overhaul, Lufthansa Technik AG, Frankfurt a.M. Practical semester

Piston engine overhaul, Storm GmbH, Coesfeld Basic practical

## MILITARY SERVICE:

Army overhaul and repair battalion 120., Rheine **7/1990-6/1991**

## CURRICULUM VITAE: EDUCATION

### Technical grammar school, Borken/Westphalia

Matriculation standard **6/1990**

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**Hesselbein GmbH & Co. KG, Borken/Westphalia**

Employment as a car mechanic **2/1989-7/1989**

Apprenticeship as a car mechanic **8/1986-1/1989**

**Städtische Realschule, Stadtlohn**

Secondary School **1986**

**Von-Galen-Grundschule, Oeding**

Primary School **1980**

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## IT BACKGROUND:

### Freelancer

LEITENERGIE, MINDEN,	10/2011-today
Design and development of an operators diary for biogas plants, UML, Poseidon, java, maven, continuum, svn, javacc, rcp, netbeans, junit, internet communication engine ice, taskjuggler, MAC OS X, UNIX, LINUX, Windows	-
REGLAN-HEALTH, LANDAU	01/2003-today
Research Group Learning and Neuroscience, Health-Section	
Data Modeling and adaptive Programming, UML, Poseidon, java, maven, continuum, javacc, webstart, swing, prevayler, eclipse, netbeans, xcode, MAC OS X, UNIX, LINUX, Windows, cms, typo3, joomla, subversion, cvs, Rich Client Programming	-
AIRBUS DEUTSCHLAND GMBH,	1/2009-3/2012
Service Oriented architecture for airlines CORE, MEGA, ML-Designer, Rhapsody, Flash AS, java, DODAF, SYSML, MAC OS X, UNIX, LINUX, Windows, cvs	-
AIRBUS CIMPA GMBH, HAMBURG	10/2008-1/2009
Concept study within SPEEDS project Rhapsody, java, CORE, SYSML, MAC OS X, UNIX, LINUX, Windows	-
AIRBUS DEUTSCHLAND GMBH,	10/2008-12/2008
Service Oriented architecture for airlines CORE, MEGA, ML-Designer, DODAF, SYSML, MAC OS X, UNIX, LINUX, Windows	-
AIRBUS DEUTSCHLAND GMBH,	1/2008-9/2008
Software architecture for a content management system and a 3D design CORE, MEGA, UML, DOORS	-
AIRBUS DEUTSCHLAND GMBH,	4/2007-12/2007
Concept design for the Airliner Network Architecture(ALNA) Ethernet, ARINC 429, ARINC 665, ARINC 615, ARINC 763, ABD 100. ABD 200, DOORS, Corba, ACE TAO, JacORB, UML, LINUX, Java	-

### **Employment**

- AIRBUS DEUTSCHLAND GMBH, 2/2004-3/2007
- Concept design for the cabin onboard maintenance system(Cabin-OMS) -  
 Ethernet, ARINC 429, ARINC 665, ARINC 615, ARINC 763, ABD 100.  
 ABD 200, DOORS
  - Design and specification of a Local Maintenance Function(LMF) and a Data -  
 Loading and Configuration System(DLCS)  
 LINUX, Java, Spring, UML, Ethernet, ARINC 429, ARINC 665, ARINC  
 615, ARINC 763
  - Standardization of the maintenance data exchange -  
 SNMP
  - Standardization of the maintenance data exchange and design principles for -  
 middleware based architecture  
 Corba, ACE TAO, JacORB, UML
  - Concept development and implementation of test software to check the BITE -  
 related network communication.  
 Compiler-Compiler JavaCC, Java, UML, Poseidon, GUI programming,  
 AFDX, Ethernet, ARINC 429, ARINC 665, ARINC 615, ARINC 763,  
 DOORS.
- AIRBUS DEUTSCHLAND GMBH, 10/2002-10/2003
- Concept development and implementation of a web-based information  
 system.  
 UNIX, PHP, MySQL, JavaScript HTML, XML, TScript (Typo3)
  - Design of the data model and the user concept for a LSA development  
 environment (Logistic Support Analysis). UML, Poseidon
- WESTFÄLISCHE-WILHELMS-UNIVERSITÄT, MÜNSTER 1/1999-9/2002
- Concept development and implementation of a web-based teaching and  
 training environment.  
 HTML, JavaScript, Perl, JAVA, Compiler-Compiler JavaCC,  
 GUI programming.
  - Build up and administration of a local area network.  
 Linux, WIN2K, NT, WIN9\*, Apache, Samba, NIS, DHCP, NFS, BIND

### **Projects**

An adaptive model for simulation and optimization of the production process (of overhauling aircraft engines) using the theory of artificial neural networks. Object-PASCAL, Delphi	Thesis
Software to optimize the turn around time of aircraft engines. PASCAL	Student project
Software to do data conversion, check and conflation. F&A-Database, PASCAL, VISUAL-BASIC.	Practical semester
Simulation software to compare shift models. FORTRAN.	
Software modifications on the automatic driver and 4WD test-bench control. Assembler, PASCAL.	Student assistant
Design of a gear box rattle rig test-bench. AUTOCAD.	Student assistant

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### **Studies**

Two semester course and practical training in FORTRAN. 1991-92  
 CATIA 2, Course at the Kernforschungszentrum Jülich 1992-93

### **Technical grammar school**

Advanced course BASIC. 1989-90

### **Apprenticeship**

Basic course BASIC. 1987-88

## **ADDITIONAL DETAILS:**

### **Languages**

Read, write and speaking fluently English

Native speaker German

### **Qualifications**

Microsoft Office applications, MS Project, VBA, Open Office, StarBasic, IT  
 DOORS reader/writer, Latex

Airbus A340-500/-600, Airbus A380 Cabin Systems Aircraft courses

Staff and project management courses Management

Motorcycles **Hobbies**

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