Joachim K. Hochwarth

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Education

September 1998 – January 2002	**University of Minnesota**
	Department for Aerospace Engineering & Mechanics (AEM)
	December 2002 Ph.D. Aerospace Engineering
	Minor: Computer & Information Sciences
October 1992 – August 1998	**University of Stuttgart** – Germany
	Diplom-Ingenieur[1] Aeronautical and Astronautical Engineering
	September 1994 Pre-Diploma
	August 1998 Diploma (with Best Possible Grade)

Work Experience

April 2003 - Present

Systems Engineer
GE Aviation Systems (formerly Smiths Aerospace)

February 2002 – April 2003

Systems Engineer
The Titan Corporation · Air Traffic Systems Division (now L-3 Communications)
NASA Langley

Object-oriented design and implementation of a conflict resolution algorithm for the Autonomous Operations Planner (AOP). Work on the conflict detection algorithm and internal integrator of AOP. Functional/integration testing of the AOP framework and subsystems.

September 1998 – January 2002

Research Assistant
Department of Aerospace Engineering & Mechanics
University of Minnesota

Development of the Comprehensive Dynamic Air Traffic System Simulation model ComDATSS as part of the Ph.D. project.

July 1996 – December 1997

Research Assistant
Institute for Flight Mechanics and Control (IFR)
University of Stuttgart – Germany

Programming of an I/O interface between the $Matrix_x$ environment and the IFR animation tool AniSim as well as control devices. Implementation of a GUI application to display real-time results with cockpit instruments.

March 1995 – April 1995

Contractor
DaimlerChrysler Aerospace (EADS) · Lampoldshausen – Germany

Selection and evaluation of parts of the combustion chamber assembly for Ariane V launches 501-503.

October 1994 – February 1995

Intern
DaimlerChrysler Aerospace (EADS) · Lampoldshausen – Germany

Work at the test station for combustion chamber parts of the Ariane V Upper Stage Engine (Aestus). Development of software tools for test analysis and post-processing.

Knowledge & Skills

Computer/Programming Skills

Modeling/Programming Languages
Ada · Basic · C & C++ · DXL Script (DOORS) · Fortran · HTML · Java · JavaScript · MATLAB Script · Pascal · Perl & CGI · UML · Visual Basic (.NET & VB6 Macro)

Operating Systems
Unix/Linux · Windows

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[1] German Equivalent to Master of Science

Software

Catia · ClearCase (Rational University Training) · Dimensions · DOORS · Mathematica · MATLAB/Simulink · MATLAB Compiler · MATLAB GUI (GUIDE) · Matrix$_x$ · MS Office · MS Visio · Rational Purify · Rational Rose

More Information at `www.hochwarth.com`

Model Construction Casting · Drilling · Hardening · Lathe Operating · Milling · Part Integration

Operating Experience Test Station for Ariane V Upper Stage Engine (Aestus) Combustion Chamber Parts

Languages Fluent in English & German · Knowledge of French

Publications & Theses

Comprehensive System-Wide Computer Simulation of Air Traffic Systems
Ph.D. Thesis conducted at the AEM · University of Minnesota

A Modularized Approach For Comprehensive Air Traffic System Simulation
(AIAA-2000-4478)
Joachim K. Plaettner-Hochwarth · Yiyuan J. Zhao · John E. Robinson III
Published in the Proceedings of the AIAA Guidance · Navigation & Control Conference 2000 · Denver CO · 07/14/2000 - 07/17/2000

Flight Control and Scheduling for the Lateral Motion of a Tailless F-16 Using Eigenstructure Assignment
Diploma-Thesis conducted at the AEM · University of Minnesota

Influence of a Contortion of the Stationary Blades on the Performance of a Ten Stage Axial Jet Engine High Pressure Compressor
Thesis conducted at the Institute for Aviation Propulsion Systems (ILA)
University of Stuttgart - Germany

References

Available Upon Request