

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-Ingenieur¹ Aeronautical and Astronautical Engineering
September 1994 Pre-Diploma
August 1998 Diploma (with Best Possible Grade)
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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.
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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