

FLORIAN HOLZAPFEL

CURRICULUM VITAE



PERSONAL DATA

- Date of birth: March 16th, 1974
- Place of birth: Dachau
- Nationality: German
- Marital status: married, daughter (10/2012) and son (04/2016)
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EDUCATION

- 1980 – 1984 Grundschole Dachau Sued (elementary school)
- 1984 – 1993 Ignaz-Taschner-Gymnasium Dachau
(mathematical and scientific branch)
- 1993 Abitur (qualification necessary to go to university)
Grade 1.0; best graduation possible

MILITARY SERVICE

- July 1st, 1993 – June 30th, 1994 German Air Force, Military Basics at Roth / Nuernberg;
Offizierschule der Luftwaffe, Fuerstenfeldbruck

UNIVERSITY

- Student of mechanical engineering – basic studies at the Technische Universitat Munchen
November 1994 to October 1996
- Vordiplom (preliminary exams, grade 1.2; ranking #1 out of 208 students)
- Specialization on aviation and space technology since November 1996
- Tutor at the Institute of Flight Mechanics and Flight Control of the Technische Universitat
Munchen November 1996 to July 1998
- Thesis I: “Redesign and Adaptation of an Astronaut Restraint Chair for the International
Space Station ISS”
- Thesis II: “Flight-Mechanics Investigations on the Dual-Fuel Concept for a Twin-Stage
Airbreathing Hypersonic Vehicle”
- Diplomarbeit (equivalent to the Master Thesis): “Linearization of the Aircraft Behavior for
High Lateral Offsets of the Center of Gravity”
- Graduation as “Diplomingenieur Univ.” (equivalent to MSc) in March 1999;
Grade 1.0; best graduation possible; ranking #1 out of 138 students

SCHOLARSHIPS AND AWARDS

- Scholarship for “highly gifted“ students of the State of Bavaria since June 1993
- Admission to the “Stiftung Maximilianeum“ for “highly gifted“ students in July 1993
- Scholarship “Studienstiftung des deutschen Volkes“ since 1997, awarded by the German National Academic Foundation
- Scholarship of DaimlerChrysler Aerospace Airbus since March 1997
- Award for special scientific efforts by the SEW Eurodrive Foundation: “Studienpreis 1999” (student award 1999)
- Gero-Madelung-Preis for young scientists (Award of the DGLR, the German Society for Aeronautics and Astronautics), September 2000
- Willy-Messerschmitt-Preis, Award by the Willy-Messerschmitt Foundation (for the thesis “Nonlinear Adaptive Control of an Unmanned Aerial Vehicle”), July 2004
- AIAA Modeling and Simulation Technologies Conference 2004 – Best Paper Award, August 2005
- AIAA Associate Fellow since 2015
- “Chief Chair Professor” am NLAA (National Laboratory for Aeronautics & Astronautics) at Beihang University Beijing, China since 2017

INTERNSHIPS AND PROFESSIONAL EXPERIENCE

- BMW AG Munich 1994 and 1996 (internship)
- MAN Munich 1995 (internship)
- Isar Metallguss, Geretsried (metal casting) 1996 (internship)
- Stegherr Getriebebau, Dachau (special gears) 1998 (internship)
- U.S. Air Force Research Laboratory, Wright-Patterson AFB, Dayton, Ohio, U.S.A. 1998 (internship)
- Research at DaimlerChrysler Aerospace – Military Aircraft Division (Munich) in cooperation with the Technische Universität München 1998 / 1999
- Occupation as aerospace engineer at DaimlerChrysler Aerospace – Military Aircraft Division (Munich) Flight Mechanics and Control Section 1999
- Research Assistant and PhD Student at the Institute of Flight Mechanics and Flight Control of the Technische Universität München, Munich, Germany 2000-2004
- Degree “Dr.-Ing.” (PhD) in Aerospace Engineering; “Nichtlineare, adaptive Regelung eines unbemannten Fluggerätes” (Nonlinear adaptive control of a UAV); Grade “summa cum laude” (best possible grade) November 2004
- Project Leader “Flight Dynamics” at the Defense Branch of IABG mbH in Ottobrunn 2004 – 2007
- Reviewer for AIAA conferences and journals, as well as for other conferences (CDC, ACC,...) since 2004
- Head of the “Lehrstuhl für Flugsystemdynamik” (Institute of Flight System Dynamics) of Technische Universität München; Full Professor since October 1st, 2007
- Responsible of the MSc Aerospace Program at TUM ASIA in Singapore since 2008
- Visiting Professor at the Beijing Inst. o. Technology since 2010
- Munich Aerospace e.V. Member of the Board of Directors July 2010 – November 2012
- “Chief Chair Professor” as part of the Short Term Recruitment Program of Professional Scholars of NLAA (National Lab for Aeronautics & Astronautics) at Beihang University, Beijing, China since 2017

MEMBERSHIPS

- American Institute of Aeronautics and Astronautics (Associate Fellow)
Since August 2013: Member of the AIAA TC on Guidance, Navigation & Control
- Deutsche Gesellschaft fuer Luft und Raumfahrt (German equivalent to the AIAA)
2009 - 2017: Head of the DGLR Committee T5.3 – Flight Control and Navigation
2012 - 2017: Member of the Senate of DGLR
- Bund der Freunde der TU München (university alumni association)

LANGUAGE SKILLS

- English (expert level)
- Latin

OTHER SKILLS

- Private pilot license (PPL compliant with JAR-FCL, CVFR, NVFR, TMG, glider license)
(active from 1990 to 2012 – currently dormant)
- General Flight Radiotelephone Operator's Certificate
- Computer Skills (e.g. MATLAB)

HOBBIES AND INTERESTS

- Aviation & space technology
- Science and technology in general, computers
- Family and kids

Wartenberg, February 25th, 2018

Florian Holzapfel