

## Curriculum Vitae

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### Work Experience

**Since 2009** Senior Systems Engineer, TechConnect GmbH, Munich

**Since May 2011,** assigned to Astrium/MilSat Services/NDSatCom,  
Friedrichshafen

- Verification Engineer for acceptance and verification tests in the SATCOM Bw 2 project
- Generation of test specifications, test procedures and documentation in close collaboration with the customer.
- Execution of test procedures off site with the customer

**July 2010 – April 2010** assigned to EADS, Friedrichshafen

- Avionic-Systems for Tornado/EuroFighter:  
Software Development for in-flight map visualization, map-mosaicking, Software Verification and Validation
- System Engineering and Requirements Engineering for the Digital Map Generator (DMG) using DOORS for Requirements tracking, document generation, test specifications, and test procedure generation

**2001-2009** Product Developer, Aerosensing / Intermap Technologies GmbH, Munich

- Software- and Product-Developer for InSAR-Data-Analysis (**I**nterferometric **S**ynthetic **A**perture **R**ADAR) in C++, IDL and Matlab, design and implementation of Graphical User Interfaces in IDL
- Risk Management Analysis, modelling statistical event sets for flood risks in MatLab
- Development of Business Intelligence Reports for the Insurance Industry using Crystal Reports und Xcelsius
- Feature-Extraction from digital elevation models, 3D road profiles
- On-Site-Support SW and HW for clients
- Support of client missions as RADAR operator and HW and SW specialist for the SAR-real time processor
- Further development and finalization of a real time SAR processor, incl. testing, hand-over and FAC by the client
- Acceleration and automation of the mosaicking process and the production software chain

- Sales and Marketing support with client presentations and at trade shows
- System management for the Linux production cluster and Windows network

**1991-2000** Scientist, German Aerospace Centre (**DLR**), Oberpfaffenhofen

**Feb 1994 – Dec 2000, DFD** (German Remote Data Centre)

- Planning, installation and management of the image processing lab (Windows PCs, Sun Workstations with SunOS and Solaris)
- System manager for the SAR Working Group
- Program development (C, C++, IDL, Erdas Imagine, ArcInfo, FORTRAN) for numerous satellite and Space Shuttle projects, such as SRTM, SIRC/X-SAR, ERS, Landsat
- Development of methods and algorithms for error estimation in interferometric elevation models (C, C++, IDL)
- Development of Tools for interactive and automatic improvement of interferometric products (ERDAS Imagine, IDL)
- Web site generation in „near realtime“ for the SRTM Homepage (Shuttle Radar Topography Mission), daily updates, 12 million clicks in 12 days
- Quality assurance for the Geocoding- and Mosaicking systems
- Quality assurance, generation of test plans, test und FAC of third party provided software
- Thematic interpretation and scientific application of SAR data
- Tutor for in-house training at DLR for IDL Widgets and object-oriented programming in IDL
- Tutor for interns, diploma and doctorate students
- Regular presentations for visitors to DFD, represented DFD at various national and international venues

**Aug 1991 - Jan 1994, GSOC** (German Space Operations Center)

- Development of a ground station simulator for the Deep Space Network
- Data Manager for the D2 Space Shuttle Mission
- Project preparations for the MIR Demo Mission and MARS 94/96
- Test and validation of a CCSDS-compatible telecommand-decoder
- On-site installation of Soft- und Hardware at the Russian Aerospace Control Centre ZUP near Moscow for a direct data link ZUP-DLR
- SW und HW support during LEOP (Low Earth Orbit Phase) for the EUTELSAT and DFS telecommand Systems in Bangalore, India
- SW und HW Manger for Telecommand Systems Working Group

**1986-1991** Scientist, Astronomical Institut Tübingen University (AIT)

- Program development for data reduction and photometric calibration for the HIPPARCOS/TYCHO satellite project

- System manager for the AIT-VAX-cluster
- Assistance creating the German Astro Net (DAN)
- Member of the German Astronet team, advisory group for astronomical institutes for purchasing HW and SW
- National Host Manager ULDA (IUE Low Dispersion Archive)

**Jan. 1985** Joined ESA project HIPPARCOS/TYCHO

**1982-1986** Tutor for the astronomical practical course

### Other Experience

since 1997 Programming tutor for Object Oriented Programming in IDL

since 1994 Programming tutor for GUI development with IDL-Widgets

Jan. 1991 Trainer for VAX-Cluster-Management with the company DML for the German Bundeswehr

1986-1991 Freelancer at Volkshochschule Tübingen, Astronomy instructor at beginners and advanced level, study trips to Stuttgart Planetarium for children, guide for observatory tours at Tübingen Observatory

1985+1986 Photometric observations at the European Southern Observatory, LaSilla/Chile, two weeks per visit

### School, University

1980-1986 Studied Physics and Astronomy in Munich and Tübingen, Diploma October 1986 (Diplom Physiker, MSc)

MSc Thesis: „**Preparation of photometric measurements for one million stars with the satellite project HIPPARCOS/TYCHO**“

1971-1980 Werdenfels-Gymnasium Garmisch-Partenkirchen, Abitur May 1980

1966-1971 Volksschule Grainau

### Hobbies and Languages

- Piloting, singing, dancing, local affairs (politics), learning languages
- multilingual: German and English (native languages),  
Good basics in: Russian, Spanish  
Basics in: Czech, Croatian, French, Chinese, Arabic