

THOMAS GALKA

Graduate Engineer Geoinformation
(Master of Geomatics)



Personal Information

Date of birth	27.11.1978
Place of birth	Strzelce Opolskie (Poland)
Nationality	German, Polish
Civil Status	Married
Children	2 (2012, 2014)
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Career

since 2009

axmann geoinformation

Tasks (service engineer): projects (management and implementation), trainings and workshops (developing and implementation), first level support, expertises (GDI), services at the customer's side, sales, budget planning

Tasks (product owner): Developing and adapting the product vision, writing new user stories and acceptance tests, ordering the product backlog, release planning

Achievements: successful implementation of many projects (migrations of GIS-systems, development of check routines for geodata, interfaces between different GIS-formats), development and implementation of a new product (checkgeodata.net), implementation of approximately 70 trainings and workshops

2008 – 2009

University of Vienna

Department of Geography and Regional Research
Division: Cartography and GIS

Tasks: programming of web applications, database and application design, cartographic design, administrating of the divisions IT-systems

Achievements: Development of a web mapping GIS for the interdisciplinary project "The Cultural History of the Western Himalaya from the 8th Century": (<http://pro.geo.univie.ac.at/projects/chis/>)

2004 –2007

German Aerospace Center (DLR), Oberpfaffenhofen

Remote Sensing Technology Institute (IMF),
Division: Marine Remote Sensing
Position: Graduate assistant

Tasks:

mapping of bottom coverages, vegetation species and water quality;
processing of airborne and satellite data (sensors: Daedalus, HyMap, Rosis, Meris, Chris, Ikonos and Landsat), spectral analysis and environmental mapping of multi- and hyperspectral data, visualization of measurement results, archiving, indexing and documentaion of remote sensing data, planning of aerial surveys, analysis and comparision of calibration results of different sensors, accuracy analysis of rectified data, detection of sensor boresight parameters for the geometrical rectification of images, conceptual design of a database for remote-sensing datasets, programming of applications and batches (C, C-Shell), image processing, preparation of presentations, assistance in field campaigns

Achievements: Development of a new classification method for multi- and hyperspectral remote-sensing data based on derivative analysis and spectral unmixing

2005 –2007

Freelancer

Domain: web programming, media-technology, cartography, conceptual design, code conversion and support of websites, database and application design, development of web applications, creation of multimedia presentations, print-layout and prepress, creation of info-graphics and survey maps, image processing

Certifications

Product Owner Advanced certified by bor!sgloger
FME Certified Trainer and FME Certified Professional by Safe Software

Experiences Abroad

2007 – 2008

Travelling across Asia and Australia
(Poland, Ukraine, Russia, Mongolia, China, Southeast Asia, Australia)

Education

2005 – 2006

Thesis at German Aerospace Center (DLR) in Oberpfaffenhofen
Title: "Multi- and hyperspectral classification of wetlands using derivative analysis and Spectral Unmixing"
Web: <http://remote-sensing.carto-media.eu/thesis>

- 2000 – 2005 **Studies** of Cartography and Geomedia Technology
at the University of Applied Sciences in Munich
Personal focuses: Remote Sensing, Geomatics, Media Technology, Databases
Degree: Graduate Engineer
- 1997 –1999 **Military service** in mountain infantry unit 233 in Mittenwald
13 months in combat unit, 10 months command unit
- 1995 –1997 **Secondary school** Straubing, Germany
Degree: A-level
- 1991 –1995 **Secondary junior school** Straubing, Germany
Degree: O-level

Internships

- 2003 –2004 **German Aerospace Center (DLR),**
Remote Sensing Technology Institute (IMF),
Division: Photogrammetry and Image Analysis & SAR Signal Processing
Tasks: analysis of SAR-Data in the test stage of the SAR-satellite-sensor TerraSAR-
X, processing of airborne data, parametric rectification, mosaicking and adaptation
into the UTM-system, accuracy analysis
- 2003 **AIR | Graphic Artisan** in Ko Tao, Thailand
Tasks: creation of a touristic map of Ko Tao
- 2003 **National Research Center for Environment and Health (GSF),**
Institute of Radiation Protection (ISS)
Tasks: acquisition of test fields for wheat species experiments into a GIS, feeding of
the data into databases of the research association for agricultural ecosystems (FAM)
- 2002 **Bavarian Bureau of Geology**
Tasks: creation of the digital geological map 1 : 25 000
(digitalization, appropriation of shape attributes and symbolization of the map
content using ESRI ArcGIS)
- 2000 **Bavarian Land Surveying Office**
Tasks: digital updating of topographic maps, editing of ATKIS-Data,
Creation of the digital land register map and touristic maps, preprint

Personal Skills

- Languages
- | | |
|---------|---|
| German | native speaker |
| English | Proficient Speaker
(Business English level 1) |
| Polish | native speaker |
| Russian | Basic knowledge
(private study, 6 weeks in Russia) |

Economic Knowledge	Experience in sales and project distribution Experience in independent services Studying subjects: Technology and Calculation, Cost Accounting and Results Accounts, Quality management, Legal Doctrine
Social Skills	College branch of study: Psychology and Pedagogics 5 years as FME Trainer certified by Safe Software

Professional Skills

GIS

Spatial ETL	FME und FME Server (Certified Professional by Safe Software)
GIS (software)	ArcGIS, QGIS, AutoCAD 3D Map, Intergraph GeoMedia, GRASS GIS
GIS (data formats)	ESRI Shape, ESRI Geodatabase (mdb+filebased), Intergraph GeoMedia, MicroStation DGN, MapInfo, AutoDesk DWG/DXF, AutoDesk SDF
WebGIS	UMN Mapserver, OpenLayers, GeoServer, GeoJSON, GML, KML
Spatial Databases	Oracle Spatial Object, Oracle Georaster, PostGIS, Spatial Data (SQL Server), MySQL Spatial, SpatiaLite
CAD	Autodesk AutoCAD
NIS	Intergraph G/Technology, rmDATA PGIS, ArcFM UT
Remote Sensing	ERDAS Imagine, Global Mapper, XDibias (DLR), RSI ENVI

Development

Scripting	PHP, JavaScript, Ajax
Databases	Oracle, MS SQL Server, MySQL, PostgreSQL, MS Access
Markups	HTML, XHTML, XML, CSS, SVG
Web	MS IIS, Apache HTTP Server, Apache Tomcat
Programming	Visual Basic, Python, C, PEARL, Java (basics)

Other

Operating systems	Microsoft Windows, Linux, Mac OS X
Image Processing	Adobe Photoshop, GIMP, Corel Paint Shop Pro
Graphics	Adobe Illustrator, Corel Draw, QuarkExpress
Multimedia	Adobe Creative Suite (Flash, Dreamweaver, Premiere)
Office	Microsoft Office (Word, Excel, PowerPoint, Outlook), Open Office, Origin

Interests

running, climbing, diving, travelling, photography