Ulrich Strötz

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PROFILE

GIS developer with a special interest developing fast and efficient geospatial applications with OpenSource software.

EXPERIENCE

2013   Present
(11 months)

GIS INTERN, Ecotrust   Portland, OR
Development of a timber <u>harvest cost model</u> and a <u>road model</u>, for Ecotrust's Forestry Scenerio Planner. The cost model estimates timber harvest costs for a given forest stand. The road model models potential logging roads based on existing OpenStreetMap data and factors like slope, stand density, etc.
▶ Python, GDAL, Grass Script, OSM API, OSRM API, QGIS

2012
(3 months)

GIS INTERN, DHI Wasy   Berlin, Germany
Extracting and modifying OpenStreetMap data for use in DHI's GeoFES (decision support for disaster management). General data processing, analyzing, and visualization.
▶ OSM , Osmosis, QGIS, FME, ArcMap, Python, ArcPy

2011
(5 months)

STUDENT GIS TECHNICIAN, University Eberswalde
Eberswalde, Germany
Digitizing of power lines in Germany. Collecting various GIS data regarding biomass for renewable energy production and visualization of the data in a <u>web map</u>.
▶ OSM, ArcMap, ArcGIS Online

2010   2011
(6 months)

GIS INTERN, DNR Alaska   Fairbanks, AK
Various GPS data collection and map production. Development of a <u>tool</u> for the ArcGIS Toolbox that estimates biomass harvest costs.
▶ ArcMap, ModelBuilder, Python, Trimble & Garmin GPS

EDUCATION

2012 2014 (expected)	**Geographical Information Science & Systems (M.Sc.), University of Salzburg** Salzburg, Austria (Online Program)	
2013	**Open Web Map Services and Web Mapping Summer School, University of Girona** Girona, Spain	
2008 2012	**Forest Ecosystem Management (B.Sc.), University of Eberswalde** Eberswalde, Germany	

SKILLS

- **GIS:** QGIS, GDAL/OGR, ArcMap, Grass GIS, FME Desktop, OpenJump, Landserf, TileMill
- **Programming languages:** Python (GDAL/ArcPy), JavaScript (Leaflet, OpenLayers), HTML, CSS, XML
- **Statistics:** R, SPSS
- **Databases:** SpatiaLite, PostgreSQL/PostGIS
- **Office:** Microsoft Office (inc. Access), OpenOffice, iWork
- **Operating Systems:** Mac OS X, Microsoft, Linux

LANGUAGES

- **German** (native language)
- **English** (fluent)
- **Spanish** (basic)

ADDITIONAL INFORMATION

- **OpenStreetMap** mapper   user statistics
- **GitHub** pusher: Report Card
- **GIS Stack Exchange** student and teacher: account

References available upon request