Roger Almengor González

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Experience

Geospatial Developer
GAF AG

Jan 2022 - Present (4 months +)

Back to what I consider my home when it comes to image processing, remote sensing and GIS. Excited about the projects I will be contributing to as a geospatial analyst.

Scientific Researcher
German Aerospace Center (DLR)

Jan 2020 - Dec 2021 (2 years)

At the German Aerospace Center, I am learning firsthand about the great advances being made in the field of remote sensing for agriculture. Here I have been building tools for crop classification in Germany using satellite imagery and the best available in-situ data. Currently I am concentrating on documenting results for further publication in scientific remote sensing journals, and delivering geodata for the Helmholtz Climate Initiative Project (HI-CAM). On the technical side I have been able to hone my skills with the Google Earth Engine API written in the JavaScript programming language.

Remote Sensing Data Analyst
GAF AG

Apr 2017 - Dec 2019 (2 years 9 months)

After my internship, I had the opportunity to work full time at this amazing company. Basically I was involved in the generation of the high resolution layers of the copernicus land cover services. My work comprised the classification of grassland and forest areas using sentinel-1 and sentinel-2 satellite imagery. Over time I was able to refine my skills with the Python programming language and different packages to build tools for data processing. At the same time, in my morning commuting routine, I became a fan of the GDAL API written for the C programming language, and I was playing around building tools for time series calculation based on stacks of raster datasets.

Intern
GAF AG

Feb 2017 - Mar 2017 (2 months)

It was at GAF AG that I was able to experience how large and diverse the remote sensing industry is. In my two months of internship I had the opportunity to learn geoprocessing of large amounts of vector and raster data with different GIS packages. I also started to take my first steps with the Python programming language to automate some spatial data analysis routines.

Intern
Remote Sensing Solutions GmbH

Aug 2016 - Oct 2016 (3 months)

In this company I had the opportunity to work on real life projects related to remote sensing. As in my master thesis I had some experience in object based land cover classification using eCognition software, I was able to refine all this knowledge and create better rule-sets for fire detection in tropical forests.

Forest Engineer

Forest Finance Panama

Sep 2011 - Sep 2013 (2 years 1 month)

Here I learned how important the forest and agroforestry systems are for the care of the environment. I had the opportunity to coordinate the work in forestry projects, from monitoring tree growth, thinning, pruning and selling timber, to fulfilling the requirements for the FSC certification audit. My plans to move to Germany to study, made me finish my cycle in this wonderful company.

Education

Technical University of Munich

Master's degree, Sustainable Resource Management

Oct 2014 - Aug 2017

Universidad de Panamá

Environmental Engineer

Mar 2005 - Aug 2010

Licenses & Certifications

Radar Remote Sensing - Friedrich Schiller University Jena

Skills

Remote Sensing • Geographic Information Systems (GIS) • Quantum GIS • ArcGIS Products • PostGIS • Python (Programming Language) • Pandas (Software) • GeoPandas • Google Earth Engine • ANSI C

Honors & Awards

Summa cum laude - Universidad de Panamá

Aug 2010