



# Mateusz Wuchnicki

Specialist in GIS, Photogrammetry and Remote Sensing



## Work Experience

### Technical Manager in the Aviation

#### Technology Department

01/2023 - 03/2024

SmallGIS Sp. z o.o. | Krakow

Within the company's internal structure, I served as a technical manager in the aviation technology department. I was responsible for the efficient operation and substantive support of the team of analysts and technical staff. At the same time, I performed the function of operational supervision of aviation missions.

My duties included:

- Coordinating and supervising photogrammetric projects
- Leading a team, providing support and resources to accomplish tasks
- Supervising research and development work on new aviation technologies
- Maintaining accurate technical and operational documentation for aviation systems
- Optimizing production processes for orthophotos and LiDAR data
- Organizing training for the technical team
- Identifying potential risks associated with project implementation
- Collaborating with clients on technical specifications for aviation products

### GIS, Photogrammetry and Remote

#### Sensing Analyst

07/2020 - 12/2022

SmallGIS Sp. z o.o. | Krakow

Working in the aviation technology department, during which I participated in many photogrammetric and research projects. I served as operational supervisor of aviation missions, ensuring efficient and safe conduct of aviation operations to obtain aerial images and perform laser scanning.

My duties included:

- Conducting geospatial analyses
- Developing aerial orthophotos and LiDAR (ALS) data
- Processing satellite and hyperspectral imagery
- Comprehensive planning, monitoring, and coordination of aviation missions
- Coordinating activities with various authorities and military units
- Creating project documentation and reports from aviation missions
- Direct contact with clients

### GIS Technician

10/2018 - 12/2020

SmallGIS Sp. z o.o. | Krakow

During my work in the GIS department, I developed my skills in vector and raster data processing. I learned software and techniques for developing spatial data. While working in this position, I moved to the aviation technology department.

My duties included:

- Developing aerial orthophotos and LiDAR data
- Conducting spatial analyses
- Processing vector and raster data
- Conducting training in GIS analysis and software
- Direct contact with clients

## About Me

I am a qualified engineer with over seven years of experience. I have actively participated in numerous commercial and research development projects. I have conducted many spatial analyses, developed orthophotomaps, terrain models, and point clouds from airborne laser scanning, as well as written technical reports. I have been responsible for planning, monitoring, and coordinating flight missions aimed at acquiring high-resolution aerial photos and ALS point clouds. I possess exceptional analytical, organizational, planning, and communication skills, along with a focused approach to working in a structured environment.

I am seeking a job where I can utilize my skills and continue to grow within the broad GIS industry.

## Contact

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## Education

Geoinformation | Bachelor of Science

10/2013 - 09/2017

Adam Mickiewicz University/Poznan

Thesis topic: „Map Application with Geo-Survey Functionality – Geoinformation Portal Template”

A web application serving as a creator of a geoinformation portal enabling the creation of any survey based on spatial data with a map background.

(Technologies: HTML, CSS, JavaScript, PHP)

# Technical Skills

## Software

### Geographic & GIS:

- ArcGIS, QGIS, Riegl, Trimble, Inertial Explorer, MicroStation

### Remote Sensing & Photogrammetry:

- Trimble Inpho, TerraSolid, Agisoft Metashape, Riegl Software, Inertial Explorer, iX Capture, CATALYST od PCI Geomatics

### Data Science & Analysis:

- PyCharm, Jupyter Notebook, Google Colaboratory, R Studio

### Communication & Collaboration:

- Slack, Discord, Skype, Teams, Zoom
- Jira, Confluence, Trello, Dropbox, TimeCamp, Manic

## Programming languages

- Python, R, HTML, CSS

## Operating Systems

- Microsoft Windows, macOS

# Languages



Polish | native



English | B2

# Soft Skills

## Time Management

I am capable of managing multiple tasks simultaneously

## Problem Solving

I can calmly analyze a situation and identify possible solutions

## Teamwork

I easily collaborate with others to achieve a common goal

## Independence

I independently complete assigned tasks

## Responsibility

I am aware of the consequences of my decisions

## Flexibility

I can adapt to changing project needs

## Reliability

I perform my duties scrupulously and precisely

# Follow Me

[www.github.com/MateuszWuchnicki](https://github.com/MateuszWuchnicki)

[www.linkedin.com/in/mateusz-wuchnicki](https://www.linkedin.com/in/mateusz-wuchnicki)

[www.instagram.com/matt\\_wuc\\_](https://www.instagram.com/matt_wuc_)



# Work Experience (continued)

## Intern

*SmallGIS Sp. z o.o. | Krakow*

07/2017 - 09/2018

I started work after completing my first degree studies. During my internship, I participated in many GIS projects, such as mapping the largest Arboretum in Poland, updating and developing spatial development plans, and processing aerial images for the project of the National Centre for Research and Development (NCBR). My duties included:

- Processing high-resolution aerial images and satellite imagery
- Creating reports and reports on analyzes and projects
- Processing and migrating data from various sources
- Preparing technical documentation

## Photogrammetry Technician

*GEOCARTIS Sp. z o.o. Sp. K. | Poznań*

06/2016 - 09/2016

A three-month internship in the photogrammetry industry, during which I learned to create 3D models and work with point clouds from laser scanning.

My duties included:

- Creating BIM models (e.g., residential blocks, bus depots)
- Developing apartment layouts based on TLS point clouds
- Acquiring TLS point clouds using a Leica laser scanner
- Creating comprehensive project documentation

## Intern

*GEOMAT Sp. z o.o. | Poznań*

09/2015 - 11/2015

A three-month internship in the geodesy industry, during which I learned tools for designing maps and databases. I improved my skills in using surveying instruments.

My duties included:

- Updating the BDOT10k database and cartographic editing of the KARTO10k database
- Controlling the attributes of GESUT database objects and creating thematic maps
- Conducting geodetic measurements



# Courses and Training

## Bootcamp Data Science PRO

*Sages, Kodłamacz | Warsaw*

02/2022 – 09/2022

*Online course, 420 hours*

An intensive, six-month Data Science course, thanks to which I am proficient in Python and its libraries for data analysis.

Skills acquired:

- Python and its libraries such as NumPy, Pandas, scikit-learn, basic Keras and TensorFlow
- Modeling techniques and the most popular machine learning models
- Data transformations, evaluation schemes, and variable importance assessment
- Hyperparameter optimization, automation of the modeling process (pipelines)
- Basic neural networks (Deep Learning), image and text classification



# Hobbies | Interests



Mountain Climbing



Running



Personal Finance & Investing



Data Science & Analysis



E-Sport