Clayton Groth

PROFILE

26-year old professional in GIS. Working and completing a Master's degree in GIS web map programming at the University of Wisconsin

CONTACT

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SKILLS

ARCMAP

GEOSPATIAL CODING (PYTHON)

DATA ANALYSIS

DATA COLLECTION/MANAGMENT

WEB MAP DESIGN/DEVELOPMENT

WORK EXPERIENCE

LIDAR SUBJECT MATTER EXPERT / GIS TECH @ CONTINENTAL MAPPING

May 2017 - Present

I currently lead a small team in collecting and processing LiDAR data for various clients and applications in transportation and infrastructure. In this position I have added to my skills in ArcMap, Python and spatial databases. I have gained skills in point cloud processing software and organization of administrative information with MS Excel. I lead the team in creating and combining maps and also assuring the quality of the data. My ideas and problem solving abilities have made me a valuable asset to the team.

WIND DATA TECH @ BASELINE RENEWABLES

Sept 2016 - May 2017

In this position I participated in field data collection and creating deliverables for clients, usually mapping potential turbine locations for prospective wind farms. I worked with a small team on field deployments and did independent work organizing client's data and creating maps.

RESEARCH ASSISTANT @ UW MADISON

Sept 2014 - May 2016

With the Center for Sustainability and the Global Environment I worked on a research project mapping the correlations between ozone concentrations and various meteorological variables. I gained experience in creating scripts for mapping atmospheric data and collecting and organizing EPA data. I primarily used NCAR command language run in Unix/Linux shell. I also gained valuable experience in creating technical reports for academic purposes. This gave me exposure to the world of academic research.

EDUCATION

M.S. GIS WEB MAP PROGRAMMING @ UNIVERSITY OF WISCONSIN MADISON

Sept 2017 - Present

I am currently completing my master's degree online with UW Madison. My studies in GIS have added substantially to my advancement at work and to my interest in GIS.

Relevant Coursework:

Spatial Analysis (work in ArcMap: spatial regression, spatial interpolation, Krigging), Geocoding (Python, OGR/GDAL), Graphic Design Cartography, GIS and Cartography

B.S. ENVIRONMENTAL SCIENCE @ UNIVERSITY OF WISCONSIN MADISON

2011 - 2016

I completed a two undergraduate degrees at UW Madison, one in Environmental Science, focused mostly on air quality, and an additional major in Philosophy, focused on technical philosophy of science, mainly in probability theory.

Relevant Coursework (graduate level, taken as undergrad):

Bioclimatology, Air Quality Modeling and Analysis, Atmospheric Dispersion, Renewable Energy Systems Engineering, Chemistry (I & II), Calculus, Mathematical Statistics, Statistical Probability (philosophy)