

COURTNEY ZIRKEL

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GIS EXPERIENCE

HOUSING, PLANNING, & COMMUNITY DEVELOPMENT INTERN, City of Binghamton,
Binghamton, NY

August 2017 – PRESENT

Identified ideas and sources to aide the City of Binghamton for the Clean Energy City Designation
Developed maps to identify notable age groups for improvement in becoming an “age friendly” city
Investigating hot spot locations of off-campus student housing

GRADUATE TEACHING ASSISTANT, Binghamton University Geography Dept., Binghamton, NY

AUGUST 2016 – PRESENT

Lead lectures on specialized topics in geography
Aide students in various aspects of geography, and GIS techniques
Proctor classes/exams

PLANNING AND SITUATIONAL AWARENESS INTERN, American Red Cross, New York, NY

JUNE 2017 – PRESENT

Participated in the Home Fire Campaign: installing smoke & carbon monoxide alarms, and educating
residents in Sheepshead Bay, Brooklyn about fire safety
Creating user guidebooks (and supporting maps) on how to make maps using various GIS Software
Trained “Missing Maps Project” Facilitator

GIS TECHNICIAN/ANALYST, Suez in North America (formerly known as United Water), Wantagh, NY

JANUARY 2015 - AUGUST 2016

Updated and maintained the sewer network geodatabase for Nassau County (vector data: gravity mains,
manholes, SSOs, pump stations...)
Organized daily inspection results to identify critical areas for the planning team
Created maps for general office/field crew use
Identified risk areas and created maps for Sonar Inspection Planning
Generated annual reports of geodatabase updates/repair areas
Setup GPS devices for field crew use

TEACHING ASSISTANT, SUNY Cortland Geography Department, Cortland, NY

AUGUST 2012 - DECEMBER 2012

Assisted the Geography Department Chair with organizing his Intro to GIS course
Aided students in projects and helped them develop an understanding of innovative ideas/concepts

GIS INTERN, Nassau County Office of Emergency Management, Bethpage, NY

JULY 2012 - AUGUST 2012

Gathered data for GIS based projects
Developed maps for office and public use such as county maps, hurricane evacuation routes, Barclays golf
tournament, and started maps for the Presidential Debate at Hofstra University

OTHER EXPERIENCE

SOCIAL COORDINATOR/ALTERNATE SENATOR, Geography Graduate Student Organization,
Binghamton University

MAY 2017 – PRESENT

Organized group events for the Geography Department
Acted as a liaison between the Geography Graduate Dept. and the Graduate Student Organization

CUSTOMER SERVICE, CVS Pharmacy, East Rockaway/Lynbrook/Cortland, NY

AUGUST 2008 - AUGUST 2015

Addressed customers’ questions and concerns by assisting them on sales floor and at the photo lab

EDUCATION

**Binghamton University – State University of
New York**

Binghamton, NY – Master of Arts in Geography
(Focus: GIS)

EXPECTED GRADUATION DATE: MAY, 2018

State University of New York at Cortland

Cortland, NY – Bachelor of Science in GIS
(Focus: Advanced Geospatial Applications)

GRADUATED: MAY, 2014

Minors: Computer Applications, and
Anthropology

Olive C. Fish Award winner – outstanding
student in the Geography program

Phi Beta Delta International Honor Society
Dean’s List: Fall 2010, Spring 2011, Fall 2012,
Spring 2012

Organized GIS Day and Geography Awareness
Week 2012 (presentation and public
displays)

University of the Sunshine Coast

Sippy Downs, QLD, Australia — Study Abroad
Program

February 2013 – June 2013

Enrolled in geography courses that focused on
urban and cultural aspects of Australia

SKILLS

GIS Software/Platforms: ArcGIS 10.4 +
Extensions, ArcGIS Online, QGIS, Spatial
Analysis, Network Analysis, Python, Interactive
Web Mapping, CARTO, GitHub, Data Reviewer,
CityWorks, Garmin Rino 630, Trimble GPS,
Garmin Forerunner, Trimble Pathfinder, ArcGIS
Online, OpenStreetMap, Leaflet, DJI Phantom
3 Standard Drone, Litchi

Other Software/Platforms: R, Adobe
Photoshop, Adobe Illustrator, Javascript, Visual
Basic, SPSS, Google Docs, Microsoft Office,
WordPress, HTML, CSS

MEMBERSHIPS

**Gamma Theta Upsilon, Binghamton
University Chapter**

MAY 2017 – PRESENT

Academic achievements in the Geography
Program

**AAG (American Association of
Geographers)**

February 2017 – PRESENT

Poster presentation at the 2017 Boston AAG
Conference – “Bohemia in the Boroughs:
Gentrification by the Creative Class in
New York City”

Alpha Phi Omega, SUNY Cortland Chapter

FEBRUARY 2012 – MAY 2014

Trained new hires on the register and company expectations

PUBLIC REALTIONS/FELLOWSHIP CHAIR, Alpha Phi Omega, SUNY Cortland Chapter

AUGUST 2013 - MAY 2014

Managed the Chapter's social media accounts including: Facebook, Twitter, and Weebly website

Organized group events within the chapter

Kept historical records for chapter member use

VOLUNTEER CAMP COUNSELOR, Lynbrook Summer Playground, Lynbrook, NY

JULY 2006 - AUGUST 2008 (THREE CONSECUTIVE SUMMERS)

Organized activities for camp groups

Completed over 160 hours of community
service in the local community

CERTIFICATIONS

FEMA

IS-00100: Intro to Incident Command System

IS-00200: ICS for Single Resources and Initial
Action Incident

IS-00700: National Incident Management
System

IS-00907: Active Shooter: What Can You Do?

Red Cross

Service Associate (SA)

Disaster Services Overview

Mass Care Overview

Sheltering Fundamentals

Psychological First Aid

Everyone is Welcome

Operations Planning Fundamentals

Incident Reporting Fundamentals

Concept of Operations Overview