



NATHAN ZIEMECKI

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Summary

I'm currently a student pursuing a Master's in GIS with a wide range of experience. I've been an organizer, designed and led research efforts including survey design/field work/data collection, I'm proficient in data organization and analysis, have spent years doing hands-on work implementing natural resource management.

Skills

- Using Python, SQL and R in data analysis
- Using JavaScript, CSS, and HTML in web mapping
- Analysis in ArcGIS and QGIS
- Cartography and data visualization with emphasis on map reader interpretation, need, and aesthetics
- ETL and spatial database management and design
- Research, Record Searching, and Scientific Research Interpretation
- Standardized Suitability and Habitat Surveys
- Bird, Plant, and Tree Identification (North East US, PNW, Rocky Mountains)
- Nest Searching, Point Counts, Call-broadcast Surveys
- Survey Planning and Design
- Working and coordinating with federal and state agencies
- Familiarity with the NEPA environmental review process
- Data Entry and Analysis in Excel, Word, Powerpoint, and Access
- Orienteering, Hiking off-trail, Backpacking, Off-Road Driving

Experience

U.S. Forest Service | Prairie City, Oregon
Biological Science Technician- Wildlife (GS-05)
04/2019-11/2019

- Designed surveys for data collection to analyze designated old growth stands for desired habitat characteristics.
- Used and analyzed spatial data in potential project proposals.
- Mapped and designated forest roads according to condition and use specifications.
- Planned, led, and participated in efforts to survey project areas for sensitive wildlife species.
- Collected seeds and participated in plantings and other efforts in a NF wide riparian habitat restoration project.
- Participated in wildland fire suppression efforts.
- Participated in prescribed-fire management implementation.
- Managed and repaired habitat restoration enclosures.
- Drove a government issued vehicle, keeping track of mileage and general state by performing daily walk-arounds, and monthly checks.
- Met U.S. Forest Service safety requirements.

Davey Tree | Wilmington, DE
Tree Trimmer
01/2021-03/2022

- Climbed trees for pruning, crown cleaning, removal, and other tree maintenance work using hand saw and chainsaw.
- Pruned shrubs, and trees from the ground using chainsaw, pole saw, hand saw, and hand snips.
- Felled trees from ground.
- Main ground support for climbing arborist foreman.
- Chainsaw, truck, hand tool maintenance and operation.

U.S. Forest Service | John Day, Oregon
Forestry Technician- Fire (GS-04)
06/2020-10/2020

- Served as a member of a Type-2 Initial Attack Handcrew (Blue Mountain Handcrew).
- Participated in initial attack, mop-up, and other fire suppression operations.
- Served as a fire look-out and provided hourly weather reports for an entire division on a Type 2 complexity incident (Slater Fire).
- Completed forestry project work in thinning units including thinning and piling.
- Participated in prescribed-fire management implementation.
- Actively anticipated and completed daily maintenance on equipment necessary for fire readiness and forestry work.

U.S. Forest Service | Island Park, Idaho
**Biological Science/Forestry Technician
-Wildlife/Fuels/Silviculture (GS-04)**
05/2018 - 09/2018

- Conducted standardized silviculture and fuels exams throughout the project area in order to collect detailed data for use in further management planning.
- Planned and led efforts to survey a project area for northern goshawk nests using call-broadcast methods to clear project areas for work according to NEPA standards.
- Identified and recorded all songbird species present at survey points.
- Collected, organized, and entered data from the habitat surveys.
- Kept track of progress on all surveys and data collection in order to plan the most efficient routes for project completion.
- Assisted with biological data sampling in a grizzly bear study.
- Drove a government issued vehicle, keeping track of mileage and general state by performing daily walk-arounds, and monthly checks.
- Met U.S. Forest Service safety requirements.

Department of Entomology and Wildlife
Ecology | Newark, DE
Undergraduate Researcher
04/2017 - 05/2018

- Managed, and led an extensive study concerning wood duck nesting habits.
- Conducted independent research, interpreting databases and existing data records and summaries.
- Conducted parameter and vegetation surveys in an estuarine marsh on the ground (wading).
- Gathered, entered, and analyzed data to write a final thesis.
- Wrote, presented, and successfully defended the results of my study as a thesis.

Tri-State Bird Rescue & Research | Newark,
DE
Intern
05/2016 - 08/2016

- Handled raptors, waterfowl, and songbirds while the animals recovered from injury; assisted in clinical work, and monitored health.
- Worked in the nursery keeping with a strict feeding/watering/cleaning schedule for baby birds.
- Cared for rescued wildlife, maintained bird cages, and evaluated the wellbeing of injured birds.

College of Agriculture and Natural
Resources | Newark, DE
Committee Member
01/2017 - 05/2018

- Active leader and participant in the group planning many of the details that go into making the widely attended (9,000 people) annual event a success.
- In charge of setting up an entertainment line-up for Agriculture Day.

University of Delaware Academic
Enrichment Center | Newark, DE
Desk Attendant
06/2016 - 05/2018

- Answered and transferred phone calls, made and managed advising appointments for multiple university departments.
- Administrative work.

Education and Training

Temple University | Philadelphia, PA

Professional Science Master's in Geographic Information Systems

Expected Graduation in Fall 2023

University of Delaware | Newark, Delaware

Bachelor of Science in Animal Biosciences, Agriculture, and Natural Resources

2018

- Minor in Wildlife Conservation
- Cum laude graduate
- Thesis: The Influence of Nest Box and Habitat Characteristics on Wood Duck Nest Box Use and Success in Delaware

Other Certifications and Training:

ICS-100 Introduction to ICS, ICS 100 Training Attained 12-JUN-2019

ICS-200 Basic ICS for Initial Response Training Attained 24-JUN-2019

IS-700 An Introduction to NIMS Training Attained 12-JUN-2019

S-130 Firefighter Training Training Attained 21-JUN-2019

S-190 Intro Wildland Fire Behavior Training Attained 17-JUN-2019

S-211 Portable Pumps and Water Use Training Attained 12-JUN-2020

S-212 Wildland Fire Chainsaws Training Attained 12-JUN-2019

First Aid Training

Water Sampling Certification (Delaware)

Government Driver's License

Government Trailer Certification

Incident Qualification Card FFT2

Resource Advisor Certification (Fire-line Trainee)

Chainsaw Certification (Class A)

Publications

Ziemecki, N. (2018). THE INFLUENCE OF NEST BOX AND HABITAT CHARACTERISTICS ON WOOD DUCK NEST BOX USE AND SUCCESS IN DELAWARE (Undergraduate Thesis, University of Delaware).