Thomas Thompson, PE

1010 Emerald Ave
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856-745-9504
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TECHNICAL SKILLS

Expert: Python (pandas), Visual Basic for Applications, Excel, Access, Publisher
Proficient: R, C++, Arduino
Experienced: SQL, JavaScript, Django, React, ArcGIS, AutoCAD

EMPLOYMENT EXPERIENCE

Remington & Vernick Engineers – Municipal Services Group   Cherry Hill, NJ
Project Engineer   April, 2021 – Present
- Design civil and municipal engineering projects for local municipalities and school boards
- Estimate and refine total construction costs for roadway rehab, site resurfacing, and park improvement projects
- Utilize VBA and JavaScript to improve the efficiency of the overall design process by automating regular tasks
- Analyze data collected from curb ramp inspections to assess compliance with Americans with Disabilities Act of 1990
- Review site plans for permitting and compliance with local zoning and planning codes, ordinances, and regulations

Philadelphia Water Department – Green Stormwater Infrastructure Unit   Philadelphia, PA
Environmental Engineering Specialist   December, 2018 – March, 2021
- Reviewed stream restoration design plans in local, urbanized watersheds
- Managed engineering consultants along project development from inception through construction
- Assessed urban stream corridors for exposed civil infrastructure using GIS
- Analyzed hydrological data from USGS streamflow gauges to predict watercourse flow behavior
- Coordinated with numerous local, state, and federal utilities and governmental agencies for project permitting

Philadelphia Water Department – Planning & Research Unit   Philadelphia, PA
Environmental Engineer 2   July, 2016 – December, 2018
- Contributed to the development of a long-term plan for implementing a large city utility's energy conservation strategies
- Assisted Energy Group supervisor in managing over 250 utility accounts of department-wide energy usage
- Automated the QA/QC of daily biogas and electricity production from a wastewater treatment cogeneration facility with VBA
- Developed predictive multiple linear regression energy consumption models for more than 20 water/wastewater facilities
- Optimized an inventory of greenhouse gas emissions used to meet citywide goal of 80% reductions by 2050
- Created a conceptual analytical calculation tool in Python for dynamic and efficient pumping recommendations

Civil, Architectural, and Environmental Engineering Dept., Drexel University   Philadelphia, PA
Research Lab Assistant   March to September, 2015
- Conducted longitudinal dissolved gas experiment on three algal bioreactors
- Assisted Ph. D. candidate with exploratory data analysis and inferential statistics in R
- Published a VBA script—later translated to Python—fixing a bug in an analytical instrument's data analysis software
- Trained two laboratory assistants in performing regular laboratory duties
- Developed a markup-based wiki page for the laboratory's Standard Operating Procedures

PUBLICATIONS

Price, J.R., **Thompson, T.J.**, Parish, J. (2016) "Automated Parsing of a LabSolutions Batch Results File (ASCII Output) When Using a Spreadsheet or Statistical Package to Summarize Data." *Technical Note: Shimadzu Scientific Instruments*.

HONORS, CERTIFICATIONS, AND ORGANIZATIONS

Professional Engineer, Delaware License #: 23854, Pennsylvania License #: PE091267
Steven Giegerich Memorial Scholarship for demonstrating kindness, humility, generosity, and a love for work, 2015
A.J. Drexel Academic Scholarship, 2011 – 2016

EDUCATION

Drexel University, Pennoni Honors College   Philadelphia, PA
Bachelor/Master of Science in Environmental Engineering   Graduated – June, 2016
Minor in Ecology, Accounting   **Cumulative GPA: 3.95**, Dean's List for all quarters