

Christopher M. Seigel, P.E.

24 North Childs Street, Woodbury, NJ, 08096

Phone: 609-970-2057

Email: chrisseigel3@gmail.com

I would research a simple resume format to make this look a little more professional. even a simple separator line would help.

Objective – Seeking to continue my career and professional development in a Water/Wastewater Engineering capacity.

Professional Experience:

Sci-Tek Consultants, Inc. - Civil Engineer – H&H Modeling - February 2015 to present

1. Prime consultant to the Philadelphia Water Department (PWD) Office of Watersheds (OOW) and sub-consultant to CDM Smith. On-site consultant within PWD's Hydraulic and Hydrologic Modeling group within the Office of Watersheds, supporting Philadelphia's *Green City, Clean Waters* program.
 - a. The Green City, Clean Waters program aims to provide the maximum return in environmental, economic, and social benefits, v I would not spend valuable resume space explaining the the Clean Water Act.
 - b. The H&H Modeli programs or groups. e impact of green and grey projects to ensure that com roup to other units in PWD by assisting in a variety of tasks (Sewer capacity analyses, flow monitor/rain gage data sharing, etc).
2. Consultant to PWD Planning and Research Unit – Linear Asset Management Planning (LAMP) contract.
 - a. Small Sewer Hydraulic Analysis Task – Consultant Task Lead – January 2020 to present.

Responsibilities for both contracts detailed below:

- *LAMP contract – Small Sewer Hydraulic Analysis Task*
 - Perform drainage area delineations and wet weather capacity fraction assessments on combined sewers 36" or smaller using Arc GIS and python scripts.
 - Responsible for interacting with client's project management staff and coordinating with other consultant staff members to ensure that monthly targets were delivered to client.
- *H/H Modeling Group - Hydrologic/Hydraulic Modeling*
 - Performing calibration and validation of hydrologic model subcatchments using EPA SWMM5.
 - Developing model time patterns to simulate and calibrate hydraulic effects of non-hydrologic discharge impacts to collection system, such as Water Treatment Plant backwash.
 - Suggesting updates to hydraulic model regulator invert elevations by comparing existing model inputs with design drawings, return plans, and field survey measurements performed on the city's wastewater collection system.
 - Comparing model performance between different versions of SWMM and SSOAP.
- *H/H Modeling Group - Design Support*
 - Analyzing flow monitor data, running models, and evaluating outputs to answer wastewater collection system design/capacity questions or discharge requests from the client/other groups.
 - Performing post-storm analyses to quantify and record the magnitude and recurrence intervals of wet-weather events that impact the city and outlying communities.
- *H/H Modeling Group - Model Data: Pre and Post-Processing*
 - Quantifying rainfall derived inflow/infiltration (RDII) entering the city's sewer system by performing flow separation and wet weather response analyses/R value generation using EPA program SSOAP.
 - Delineating model subcatchments in GIS based upon installation of temporary sewer flow monitors.
 - Performing field work to survey & gather GPS elevations of manhole rims and regulating chambers, and measure physical dimensions of wastewater collection components for model validation.
- *H/H Modeling Group - Database management* most hiring managers only skim resumes. They look for key words that they need to hire for. /
 - Performing QAQC on model input data: monitors, water pollution control plan Reading through all of these bullet points was impressive; however, it is likely that no hiring manager will read all of this. ,
 - Writing and editing queries in Microsc understand trends in collected data on I would identify 4-6 bullets to list under each company you worked to describe relevant experience you gained while working in that position. ,
- *H/H Modeling Group - Client Communication c* nt.
 - Developing plots/info graphics based c
 - Reviewed PWD's regulatory document Key points commonly include communication, collaboration, advanced technical knowledge acquired, how did you help with or improve scope, schedule, and/or budget on a project, etc. .
 - Presenting at informal "tech talks" to
 - Coordinating with off-site personnel to
 - Reviewing technical memos and conference reports for others, editing and providing feedback.
 - Providing training to new group members, interviewing, selecting, and managing client's interns.
 - Developing procedural documentation for new/updated tasks.

- **Software Experience** - SWMM5, SSOAP, ArcGIS, R, MS Access, AutoCAD, HEC-HMS, HEC-RAS, WMS

I like to see Software and Skills at the bottom of the resume.

Previous Work Experience:

- **Rowan University - Teaching Fellow**-July 2013 to December 2014
 - Fully-funded assistantship. Responsible for teaching laboratory sections of Fluid Mechanics and Water Resources Engineering to undergraduate juniors. Work included preparing/conducting lab experiments, reviewing engineering concepts with the classes, and reviewing and grading students' lab reports.
- **Earth Engineering Incorporated- Project Geologist Intern** - May 2012 to August 2012
 - Provided geotechnical this experience doesn't really add value to your resume because you are not looking for geotechnical work. I'd cut this one to save space. n NJ and PA. Responsibilities included performing Testing, soil exchanges, and undercutting, and tional experience inspecting concrete and rebar.

Graduate Research:

Hydrologic modeling of the Maurice River watershed in South Jersey in order to determine three objectives: (1) to validate that NEXRAD radar rainfall data can be effectively utilized in this region, (2) to better understand the role that spatial variability and scaling plays when utilizing NEXRAD data within a hydrologic model, and (3) to determine the possible effects of urbanization on runoff and stream behavior within this watershed.

Relevant Undergraduate Research/Projects:

- River hydraulics modeling using Arc GIS, HEC-RAS, HEC-Geo RAS to determine habitat quality for an endangered species. Work included If these are not typical day-to-day work tasks or don't add incredible value to your next employer I would not include data in HEC-RAS, then zing results.
- Energy audits on a re: undergrad projects since you have 5 years of work experience. current energy usage and propose options to reduce ut ; each facility to determine the effectiveness and suite
- Studying water samples to determine water quality from various parameters such as Total Solids, Total Organic Content, and Bacterial Count.

Education:

- MS Civil Engineering (May 2015) – Rowan University, Glassboro, NJ (GPA it's not required but I personally like to see Education near the beginning of the resume. I just like to see where the applicant went to school out of curiosity.
- BS Civil Engineering (May 2013) - Rowan University, Glassboro, NJ

Licensure:

- Professional Engineer - NJ State Board of Professional Engineers and Land Surveyors
 - ~~Water Resources and Environmental Exam~~ i don't need to know which exam you took. Just that you passed and which state you are licensed in.

Volunteer Activities:

- Volunteer group leader at local client and community environmental clean-up events hosted by entities such as the Philadelphia Water Department and United by Blue.