WILLIAM BARTOS

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Experience

Engineer/EIT   **Maser Consulting P.A.**   **June 2015-Present**

- Developed Python applications to automate review processes for my department, leading to over a 90% reduction in task time
- Took the initiative and coordinated with management to develop software for business development as part of my billable time
- Built computational models for simulating large scale water distribution systems in WaterCAD
- Utilized GIS and SQL queries to search large scale geospatial databases to create high quality analytical maps
- Created new AutoCAD tools and techniques which significantly reduced drafting time, enhanced quality, and reduced errors
- Participated in the design of a wastewater treatment and reuse system to save a confectionary factory over $1million/year
- Engineered solutions for water projects at Six Flags Great Adventure for new attractions and infrastructure improvements

Engineer   **Rutgers University Water Resources Cooperative Extension**   **Jan 2014- May 2015**

- Investigating the impact of rain gardens as part of a Regional Stormwater Management plan for the Troy Brook Watershed
- Engineering hydrologic models in HydroCAD to deliver stormwater diversion solutions utilizing rain gardens

Engineer   **Alzo International and Pharmetic Manufacturing**   **June 2014-Sept 2014**

- Participated in the research, testing, and development of novel chemical products for a wide range of industries

Research Assistant   **Rutgers University Department of Microbiology and Biochemistry**   **May 2013 – August 2013**

- Researched the aerobic and anaerobic degradation of polychlorinated dibenzo-p-dioxins/furans in polluted waterways

Education

School of Engineering   **Rutgers, the State University of New Jersey**   **Fall 2010-May 2015**

- Bachelors of Science, Bioenvironmental Engineering, May 2015, GPA: 2.991

Projects

Shop Drawing Stamp and Transmittal Generator

- A Python based program to interpret shop drawing spreadsheets, track submissions, and generate forms for the project review process
- Automates the administrative portion of a submittal review from over 30 minutes to less than one minute
- Worked with company management to distribute the program to my office of over 200 people

Computation Fluid Dynamics in Python

- A series of 1D and 2D finite difference solving CFD simulations written in Python utilizing my knowledge of fluid mechanics

Personal Website

- A simple, clean personal website written in HTML/CSS and hosted via GitHub Pages

Skills

Languages and Software: Python, Flask, JavaScript, HTML, CSS, Linux/Unix, Git