BENJAMIN K. MILLER, P.E.

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OBJECTIVE

To obtain a position where I can utilize and develop my knowledge and experience as an Engineer towards influential development projects.

SKILLS

Python (2.x and 3.x)	**Other Languages**	**Technical Tools**	**Management Tools**	**Concepts**
PEP-8	HTML 5 / CSS 3	Linux, Terminal	Continuous Integration (Travis CI)	Object Oriented Programming
Data Analysis (Numpy, Mathplotlib, Jupyter)	Javascript	Git Commands (Github, Bitbucket)	Agile, Sprints, Scrum	Inheritance (Classical, Prototypical)
Standard Library (tk, math, unittest)	Bash	Vim, Pycharm	JIRA, Trello	Relational Databases
Django	Visual Basic	Virtual Environments	Sharepoint, Confluence	User Interface Patterns (Model-View-Controller)
Virtualenv, Pip	SQL (MySQL, SQLite)	SSH, FTP	MS Teams, Slack	REST APIs

PROJECTS

Pyflo [github.com/benjiyamin/pyflo]
- Created an open-source library for performing hydraulic and hydrologic computations, written in Python
- Maintained master branch of project with other contributors
- Wrote dozens of unit tests to automate maintenance of quality
- Consistently abided by PEP-8 standards in order to ensure best practices and understanding of code to other contributors
- Utilized docstrings for easy-to-follow documentation of library API
- Practiced re-usability and organization of classes using module structure in project
- Produced iterative process for modeling simulations using a node/link system
- Developed bisection-algorithm-based solution for flow through pipes and channels

Other Python Projects
- **Pysize:** Lightweight tool for converting quantities between defined units
- **djangocms-listyle, djangocms-googlecalendar:** Plugins for the Django CMS platform
- **PIR Motion Sensor:** Device for counting cars entering / exiting garage

WORK EXPERIENCE

Engineer III, RS&H, Orlando and Jacksonville, FL   **Aug. 2014 – Present**
- Used Python and ArcGIS to export geospatial data to Excel calculations
- Created scripts to automate CAD standard quality assurance (Heavily utilized by other engineers)
- Led efforts within company to transition from 2D to 3D based civil design
- Developed methodology for calculating river turbidity during construction with Excel VBA using an iterative process
- Produced 2-week scheduled development plans for 3-4 engineers
- Constructed 3D models to ensure efficient utilization of right of way and design standards

Engineer I, Atkins Global, Pensacola, FL   **Mar. 2013 – Aug. 2014**
- Programmed macros using VBA and Excel to automate generation of table-based computations
- Became primary EIT level engineer performing hydrology and other drainage calculations within firm

Intern, Capital Engineering & Surveying Inc., Tallahassee, FL   **Aug. 2012 – Mar. 2013**
- Used ArcGIS and AutoCAD Civil 3D to map storm system pipe defects by priority
- Utilized AutoCAD Civil 3D to calculate and organize depth-based prices for rehabilitation bids

EDUCATION

Florida State University   **Graduated: December 15, 2012**
FAMU-FSU College of Engineering, Tallahassee, FL
Bachelor of Science, Civil Engineering

GITHUB & CERTIFICATIONS

https://github.com/benjiyamin   Profession Engineer: FL-83181, SC-34341