Andrew T. Francis

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Tableau ● Excel ● Python ● VBA ● Data Visualization ● Modeling ● Data Analysis ● Data Mining ● Technical Writing ● Time Management ● Research and Development ● Training ● Sustainability ● Environmental Management ● Creative Thinking ● OSHA ● Hazardous Waste Management ● Environmental Monitoring ● Water Chemistry

Education

The University of Cincinnati
College of Engineering and Applied Science – Expected to graduate in 2019
- Pursuing a Bachelor of **Environmental Engineering** and **Environmental Science**
- Cumulative GPA: 3.835
- Relevant Courses: Fluid Dynamics, Waste Water Treatment, Organic Chemistry, Statistics, Calculus 1&2, Differential Equations, Civil and Environmental Systems Modeling

Professional Experience

BiOWiSH Technologies
Commercial Water Treatment – Data Analyst and Technical Support   **01/18 – Present**
- Modeled the potential revenue of BiOWiSH in every country across the world based on production data
- Built a companywide tool using Tableau that intuitively displays potential revenue, fertilizer usage, and crop production
- Analyzed sales data to identify customer retention patterns, sales trends, repeat customers, and most valuable assets
- Presented novel business insights and directions to senior level management using data driven logic
- Designed, conducted laboratory trials, and collected data for a new potential product used to clarify water
- Composed a case study regarding nitrogen removal in a wastewater treatment plant based on data collected in the field

The Environmental Protection Agency
Andrew W. Breidenbach Environmental Research Center – Environmental Health and Safety Officer   **04/15 – 04/17**
- Performed annual inspections to uphold compliance in over 1200 offices and laboratories in an EPA facility
- Assisted in performing sealed source radiation leak tests in compliance with NRC requirements
- Organized and managed a laboratory reuse center that saved the U.S. government $13,800

Andrew W. Breidenbach Environmental Research Center – Engineering Research Technician   **01/16 – 04/17**
- Performed statistical analysis using Microsoft Excel on data collected as part of 2.5-year project studying iron corrosion
- Managed the database, presentation of data, and samples for a pilot study investigating arsenic removal by iron oxidation
- Modeled the speciation of carbonate as a function of pH
- Contributing author on a technical presentation pertaining to the removal of arsenic from drinking water
- Composed a scholarly research paper describing the impacts of chloride, sulfate, and bicarbonate on iron release

Geo-Solutions
Coal Tar Remediation Site – Field Engineer   **4/17 – 8/17**
- Analyzed and altered CAD drawings of drilling maps
- Managed disposal of hazardous waste water, collection of grout samples, permeability and UCS testing data, and site supplies
- Utilized a TOPCON GPS unit to mark drilling locations, and to perform topographic, boundary, and utility location surveying
- Procured $40,000 dollars of construction tooling

Volunteer Experience

Sadguru Water Foundation
Gujarat, India – Environmental Reporter   **2/15 – 3/15**
- Studied the water reformation strategies of the local village people
- Composed a video report detailing how the local people engineered various water structures

Sparsha Trust
Bangalore, India – Building Assistant   **1/16 – 2/16**
- Helped to build a shelter for underprivileged kids in the region
- Traveled the region to learn about the different shelters and strategies implement by the organization