David Jonathas

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**EXPERIENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Insight Global April 2016-Present**

**Monitoring Representative**

Based at **Freight Watch International** (Branch of United technologies Corporation) using different equipments to monitor shipment all over the US by using the web-based software application FST US Operations v 5.26 to create Dell shipments coming from different origin points (El Paso, TX) of the US and heading to different destination (Mount Juliet, TN; Torrance, CA; Chicago, IL; South bend, IN) within the US. Use of FSN Tracks, an app which incorporated Google maps, to track down the shipment at all time all over the US based on GPS signal incorporated inside the trucks. Writing policy violations based on FSN Tracks stop notifications on Hot Zone areas where it is prohibited to stop or drivers extended stage in any areas. Making also general entries on FST US Operations v 5.26 related to departure time or closing out shipments.

Use of FST for Mexico/Crossborder Ops v 5.26 to create a new Dell Cross Border shipment when the shipment hit Laredo, TX and notify the Mexico Team of the new shipment created so they can monitor it on their system inside Mexico.

Use of Microsoft Outlook to send or receive email and other notifications when the shipments are moving on FSN Tracks.

**Insight Global April 2015-March 2016**

**Associate Operations Specialist**

Provide technical support and customer service to **Home Depot** Store Associates

Troubleshoot application and software use by Home Depot Store Associates in the store during sale activities. Use of System Center Configuration Manager Remote Control (SCCM Remote Control) to access computers in the stores located all other the US to diagnose and correct issues on Enhanced Special Services (ESVS). ESVS (version 15.5.0.10 Y.S.) is an application use to create, maintain and complete special orders for Home Depot customers for store (Informix) and online orders (Sterling), use of Service Now (Kronos) to create troubleshooted tickets

Use of PUTTY tools (Opsware and CPHPPS04) and Oview (Order Viewer and Information Evaluation Window) to access orders, their payments history and detect any issues for troubleshooting purpose.

Use of SQL to run queries and take appropriate action to fix any Informix orders issues.

**University of Texas at Arlington 1 September 2014-30 September 2014**

**Research Engineering Scientist Associate II**

Based at **Texas Commission on Environmental Quality (TCEQ)** and part of the Technical Review and Oversight Team to:

-Assist in the review of requests for exception to public water system design standards submitted by licensed professional engineers and other water supply professionals. Exception are based on compliance with Public Drinking Water permit requirements, and state and federal statutes, rules, policies, and guidelines

Draft appropriate correspondence memorializing decision for review and signature of supervisor or other senior staff.

-Provide technical assistance to consulting engineers’ city and county officials, water systems owners and other operators, agency staff, other government entities, and the public.

-Assists in installation, operation, and maintenance of environmental monitoring instruments and testing equipment; analyzes data for compliance with regulatory requirements

- Participate in conferences or other technical events with partners, as required

**Arizona Department of Environmental Quality (ADEQ) January 2013-August 2014**

**Community Advisory Board (CAB) member**

Serve as a member of the Community Advisory Board (CAB) for the 7th Street and Arizona Avenue of the Water Quality Assurance Revolving Fund (WQARF) registry site in Tucson (AZ) where a remedial investigation and feasibility study to clean up the perched groundwater, soil vapor and shallow soil gas contaminated with Perchloroethene (PCE), Trichloroethylene (TCE), Cis-1,2-Dichloroethylene (cis-1,2-DCE), Trans-1,2-Dichloroethylene (trans-1,2-DEC) is being implemented.

The main duty of a CAB is to advise ADEQ and the public of issues and concerns related to the remediation of the site. CABs will provide comments to ADEQ on cleanup goals, specific cleanup methods and other issues related to the site, represent a diversified cross section of the community in and around the site, participate in outreach to the community, may make site visits if desired.

**The University of Arizona August 2010-December 2012**

**Graduate Research Assistant**

Lab experiments on brackish water and scaling control during reverse osmosis process, data collection, data validity and Quality Assurance/Quality Control (QA/QC), analyzing and interpreting analytical data, field work in a reverse osmosis pilot plant, lab antiscalant screening, reviewing scientific paper about scaling problem during reverse osmosis process operation, operation, and maintenance of environmental monitoring instruments and testing equipment (spectrophotomer, pHmeter, titration equipment, Continuous Stirred Tank Reactors, Erlenmeyer, graduated cylinder, buret, volumetric flask, balance) ; analyzes data for compliance, groundwater remediation projects, Environmental site assessment, and water and wastewater treatment field trips, extensive use of Excel for calculation and spreadsheets, authoring technical reports

**Research Office in Computer Science for Social and Economic Development January 2009-January 2010**

**Field Manager**

Field engineering work, coordinate and ensure investigators went to investigation zones assigned, checking of public polls documents and questionnaires, work with statistical software (SPSS), data base entry, data collection, data validity and Quality Assurance/Quality Control (QA/QC), analyzing and interpreting analytical data, advisory service, supervision of a large group of people, complete accurate, authoring technical reports. Collaborates in recommending appropriate action to management.

**National Program of Flood Early Warning January 2008-December 2008**

**Risk and Disaster Management Program**

**Field Investigator**

Field investigation of the efficiency of post-disaster intervention of local committee of civil protection in the southwest part of Haiti (Nippes) impacted by climate change, data collection, analyzing and interpreting analytical data, stayed in remote locations for extended periods and work long hours in difficult conditions, authoring technical reports. Evaluates and assesses environmental risk and assists in developing programs for risk reduction. Participates in regular audits and inspections of operations areas for purposes of ensuring compliance with regulatory programs. Managing projects and respecting scheduled activities. Review project pipeline with respect to key climate change aspects, providing teams with technical and financial analysis. Participate actively in ongoing climate initiatives, research projects

**National Laboratory for Quality Control October 2005-December 2007**

**Research Scientist**

Field investigation, soil samplings and analysis, drinking water analysis, lab determination of environmental pollutants, fruits fly investigation, food safety and analysis, data collection, data validity and Quality Assurance/Quality Control (QA/QC), analyzing and interpreting analytical data, use of many laboratory experiment equipments (refractometer, pHmeter, titration equipments, Kjeldahl flask, Erlenmeyer, graduated cylinder, buret, volumetric flask, stir plate, balance), authoring technical reports

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**The** **University of Arizona (Tucson, AZ) August 2010-December 2012**

Master of Science: Environmental Engineering

**The University of Arizona (Tucson, AZ) March 2010-August 2010**

**Center for English as a Second Language (CESL)**

Certificate: Advanced Intensive English program

**Haitian-American Institute (Port-au-Prince, Haiti) October 2006- September 2008**

Certificate: English as a Second Language program

**University of Haiti (Port-au-Prince, Haiti) October 2000-September 2005**

Bachelor of Science: Agricultural Engineering

**GROUP PROJECT, FIELD TRIPS, TRAINING\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_**

**Consolidated Metal Technologies**

**Waste Treatment Operator**

**December 2016**

-Check all process lines, look for leaks, corrosion on electric wires

-Turn on all metering pumps

-Start the filter press and sludge Dryer and clean filter press

-Wash out drain line sampling tube

-Water samplings of the final tank to make sure levels of metal meet the TCEQ NPDES permit

-pH range (5.5-9.5) mg/L, Zinc (1.5 mg/L), HC (1.0 mg/L) and Nickel (1.0 mg/L) before discharge in the city sewage system.

-Clean all probes in Waste Treatment System

**Advanced water and wastewater treatment (ChEE 676) Project**

**January 2012-August 2012**

Group project on the Park-Euclid contaminated site of the Water Quality Assurance Revolving Fund (WQARF) registry site in Tucson (AZ) for Arizona Department of Environmental Quality (AZDEQ) with emphasis on:

- Determination of TCE, PCE and chlorinated hydrocarbons in the perched and regional contaminated aquifers

- Group project on the best combination of remediation technologies (advanced oxidation, granulated activated carbon, air stripping) to clean the perched and regional contaminated aquifers

- Use of Environmental Technologies Design Option Tool (ETDOT) programs (AdDesignS, ASAP, StEPP, AdOx) to run the best models able to achieve treatment goals

- Application of Federal and States Environmental laws related to public drinking water system, environmental and groundwater contamination

- Economic analysis of the treatment combination and degree of efficiency

**Environmental Fate and Transport (ChEE 574) Project**

**May 2012- August 2012**

- Use of the Adsorption Design Software (AdDesignS) in performing adsorption design calculations

- AdDesignS consists of both equilibrium and mass transfer models, which can be used to simulate gas and liquid phase multicomponent adsorption in fixed bed adsorbers

- AdDesignS provides three models, which can be used to simulate gas and liquid phase adsorption in fixed bed adsorbers. They are the equilibrium column model (ECM), the constant pattern homogeneous surface diffusion model (CPHSDM), and the pore surface diffusion model (PSDM).

- AdDesignS simulated the use of Activated Carbon which is considered one of the most effective treatment techniques for the removal of organic compounds present in liquid or gas mixtures. Adsorption works as a chemical and physical process in which a substance is accumulated at the interface between a solid and a liquid phase or between a solid and a gas phase into the activated carbon pores.

- Use of surface diffusion model (PSDM) to design a treatment system to remove Trichloroethylene (TCE) a contaminated volume of groundwater

- Work with basic knowledge of environmental policies and procedures

**Predicted effects of climate change on the southwestern parts of the United States**

**ChEE 569A : Air Pollution project**

**August 2011- December 2011**

The Intergovernmental Panel on Climate Change (IPCC) released its 4th climate assessment report in 2007, for which it was awarded the Nobel Peace Prize for its “efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change".

The United States Global Change Research Program (USGCRP) released its own report entitled Global Climate Change Impacts on the United States in June 2009.

- Read the summary reports from each group (Synthesis and Key Findings, respectively) and then compare and contrast the predicted effects of climate change on the southwestern United States in the two reports.

- Discuss the level of certainty so that the reader will understand the how likely the predicted outcome is thought to be.

- Summarize any important potential mitigation and adaptation measures that society might consider in order to “geo-engineer” a solution.

**Central Arizona Project (CAP)**

**Desalination Research Facility**

**Marana, AZ**

**August 2010-December 2012**

- Management of the desalination pilot plant, samples analysis, troubleshooting of any problems that arose from the various processes that included: Slow sand filters, microfiltration, ultrafiltration, reverse osmosis (RO)

- Performing of water analysis, such as: color, turbidity, pH, conductivity, TDS, TSS

**Field trips and lectures**

**January 2011-December 2012**

Numerous field trips and lectures at those sites:

- Hayden-Udall water treatment plant, city of Tucson (AZ)

- Roger Road wastewater treatment plant, city of Marana (AZ)

- Randolph Park wastewater treatment plant, city of Tucson (AZ)

**RELEVANT COURSES\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grad courses** : water and wastewater treatment, advanced water and wastewater treatment, microbiology for engineers, water chemistry, emerging issues in water quality, hydrology and water resources, fluid mechanics, air pollution, environmental fate and transport, chemical and environmental engineering seminars, water treatment laboratory, microbiology laboratory

**Undergrad courses**: geology, soil sciences, soil chemistry and fertilization, statistics, plant physiology and pathology, animal anatomy and pathology, meteorology and climatology, natural resources conservation, ecology, rural sociology, food science and technology, microbiology and chemistry laboratory, entomology I & II, economic entomology

**REFERENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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