** Curriculum Vitae**

**SHWETA**

**SHWETA.344395@2freemail.com**

**CAREER OBJECTIVE:**

A driven MSc. Chemical graduate with commendable problem solving and analytical skills, aspiring to mitigate environmental problems for a cleaner and brighter future.

**EDUCATION BACKGROUND:**

Sep 2015**-              Hong Kong University of Science & Technology, Hong Kong**

June 2016Master of Science in Chemical & Biomolecular Engineering (**CGPA** **3.96/ 4.3**)

Sep 2011-              **Birla Institute of Science & Technology, Dubai**

June 2015                 Bachelors (Hons.)  In Chemical Engineering **(CGPA- 8.57/10)**

**RELEVANT COURSES:**

Water Quality and Assessment, Modeling of Biological Treatment (Using Aqua-Sim), Advanced Separation Processes, Physio- Chemical Treatment Processes for Wastewater & Air pollutants, Environmental Risk assessment Studies, Environmental Pollution Control, Separation Processes, Process Design Principles, Process Dynamics and Control.

**PROJECTS:**

* Designed and simulated a wastewater treatment plant (WWTP) utilizing the activated sludge model 1 (ASM1 model) using Aqua-Sim to reduce the TN (Total nitrogen), COD (Chemical oxygen demand) and ammonia concentrations below the permissible level in 2016.
* Worked on *Leaching & Estimation of Bisphenol A* (BPA) in Plastics and Tinned Cans in 2015.
* Presented a Working model on *‘****TWIND Technology’*** at Engineering Students Renewable Energy Competition (ESREC) organized by U.A.E University 2014.
* Won Second place for Paper Presentation on ‘TWIND Technology’ for Renewable energy production for Engenuity Competition held at BITS Pilani, Dubai in 2014.
* Won Second Place for Poster Competition on the topic ***‘Artificial Photosynthesis’*** at ESREC 2013.

 **WORK EXPIERIENCE:**

08/2014- **TECHNIP, Abu Dhabi, U.A.E** - (Intern Process Engineer)

06/2015

* Worked with **ASPEN HYSIS** to carry out *Line sizing calculations* for pipelines and evaluate alternatives to select a Process design that meets the clients’ requirements.
* Executed *Pump Designing and Separator sizing* for vertical and horizontal separators.
* Worked with steady state multi flow simulator – **PIPESIM** and exploiting it for comprehensive steady state flow assurance workflows.
* Systematic entry into data sheets as per the requirements of the client company.
* Manipulate complex models and create clean, on-point user interfaces in Microsoft Excel using **Aspen Simulation Workbook** (ASW).

09/2012**- BITS PILANI**, Dubai- (Lab Assistant)

 07/2014

* Able to perform technical, non-technical procedures and paperwork required for experiments
* Strong skills in understanding the objectives of research and following commands
* Expert in maintaining, cleaning and setting up equipment for experiments
* Skilled in preparing solutions and cleaning lab equipment
* Knowledge of working with harmful materials and sterilization methods
* At ease in operating complex and basic lab equipment
* Able to carry out mathematical calculations and prepare records and graphs

07/2012**- SIBCA ELECTRONICS**, Abu Dhabi - (Building Management Systems (BMS) Engineer)

09/2012

* Utilized BMS for installation in buildings that controls and monitors the building’s mechanical and electrical equipment such [ventilation](http://en.wikipedia.org/wiki/Ventilation), lighting, [power systems](http://en.wikipedia.org/w/index.php?title=Power_systems&action=edit&redlink=1), fire systems, and [security systems](http://en.wikipedia.org/wiki/Security_system).
* Supported the application teams in the development of technical design and documentation ,ensuring that application designs conform to standard practices
* Coordinated and developed solutions with the Architecture, Development and Product Management teams

**SKILLS:**

Aqua-Sim, Microsoft Office, Advanced Excel, ASPEN HYSIS, PIPESIM, COMSOL, Auto CAD.

**References Available upon Request**