Cheng Yen (Kevin) Yang

Chemical & Biological Engineering

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CAREER PROFILE

Chemical & Biological Engineering student with a passion for renewable energy development. Experienced in lab work as well as data research, collection, and reconciliation. Aspires to combine engineering and computer science to accelerate the progress to a more sustainable future.

TECHNICAL SKILLS

Software & Languages

- Python
- Excel
- Aspen+
- MATLAB
- HTML, CSS, JavaScript
- GIS

Engineering & Laboratory

- Reactor Design
- Process Flow Sheeting
- Feasibility Study
- Lab Procedure Design
- Sample Preparation

Certificates & Other Skills

- BC Class 5 Driver's License
- Fluent in English & Mandarin

TECHNICAL WORK EXPERIENCE

FortisBC (Surrey, BC) Engineering Co-op – Records

- Collected pipeline data from record documents and engineering drawings within the FortisBC electronic library.
- Utilized FortisBC's GIS system to evaluate data reliability and accuracy.
- Reconciled FortisBC pipeline project specifications with the BC Oil & Gas Commission.

ImmuneChem Pharmaceuticals Inc. (Burnaby, BC) Lab Technician & Bioreagent Marketing Personnel

- Performed affinity chromatography to produce purified antibodies.
- Performed ELISA tests to determine protein concentrations.
- Designed newsletters on company products to send to potential clients.
- Used Facebook Ads to increase views by 300%.

TECHNICAL PROJECTS

Renewable Natural Gas Process Design Project September, 2019 - April, 2020 • Worked in a group to design a renewable natural gas production plant with An estimated 7.8% IRR and 10-year payback period. • Designed a reactor which uses BC native fungi to break down wood waste. • Conducted research to find scientific data to help simulate the bioreactor. Simulated a process plant with Excel which generates over 53,000 GJ/yr.

Recombinant Bacteria Induction Experiment

- Worked in a group to study optional induction conditions for protein production.
- Designed a lab procedure based on available equipment and a limited budget.
- Performed cell transformation in a single attempt.
- · Performed protein assays to determine product concentration

September, 2017 - December, 2017

January, 2020 - March, 2020

January, 2019 – August, 2019

Process Design

TECHNICAL PROJECTS

 Beer Brewing Experiment Worked in a group to determine the effects of temperature on beer quality. Designed a lab procedure based on available research data on Belgian Wits Designed a scoring system to evaluate the product. Determined equipment needed to produce on a microbrewery scale and amount needed to turn a profit if sold to vendors on campus. 	September, 2019 – December, 2019
 Personal Website (kevinyang.org) Self-learned basic HTML, CSS, and JavaScript Created a website which introduces myself and describes career goals. Added page breakpoints to make website mobile-friendly. 	June, 2018 – August, 2018
 Ammonia Production Aspen Project Modeled a large scale ammonia production process on Aspen+. Performed purity and heat duty sensitivity analysis with the specification of a recycle stream. 	February, 2018 – March, 2018
 Vertical Farming Sustainability Case Study Self-studied the topic of vertical farming. Determined the economic, social, and environmental viability of vertical farming as a sustainable replacement for traditional agriculture. 	May, 2017 – August, 2017
 Water Filtration System Project Designed a water collection and filtration system using given components. Used Microsoft Excel to simulate the system and achieve a 92% satisfaction 	October, 2015 – November, 2015 rate.
OTHER WORK EXPERIENCE	
 Michael J Fox Theater (Burnaby, BC) Usher Greeted and escorted up to 600 patrons to their correct seats within 30 minu Supervised patrons to ensure safety and prevent photography. Concession Sold snacks during 10-15 minute intermissions. 	December, 2013 – June, 2017 Ites.

• Performed inventory check on hundreds of sold items at the end of the night.

EDUCATION

University of British Columbia Chemical & Biological Engineering

Burnaby South Secondary School High School Diploma

ACTIVITIES AND INTERESTS

Working Out

- Dedication to improvement
- Self-motivation

Dance

- Creative thinking
- Self-expression

September, 2015 – May, 2020

September, 2010 – June, 2015