

# KEVIN H. B. GU

92 Ashridge Drive  
Toronto, ON M1V 1P2

416.993.6892

kelvingu88@yahoo.com

## SUMMARY OF QUALIFICATIONS

Accomplished chemist/chemical engineer in R&D, process and project development in a manufacturing environment.

- Excellent knowledge in water/waste water treatment. Directly waste water plant operation knowledge and design skills
- PhD research subject in membrane modification applied in water treatment.
- Member of WEAO and WEF, secretary of Ryerson Chapter of WEAO.
- Rich experience in research & development, many achievements to process improvement and modification
- Good experience in project set-up, development and implement.
- Good analytical and problem solving skills
- Working knowledge of common plastic and polymeric test methods and procedures, practical experience in UV absorption and fluorescence spectroscopy, GC, IR, OTR, WVTR, DSC, Universal Testing machine and titration
- Work well in fast paced environment , can multitask and meet deadlines
- Good knowledge in 5S, ISO9002/ISO2000, 6 Sigma, GMP, HACCP
- Team player, good communication skills, and a fast learner

### **Technical skills**

- Proficient in the Windows Office (Microsoft words, Excel, Power point), and knowledge of Visual C++, HYSIS.

Proficient in:

- Process improvement
- Research & Development
- QA & Lab analysis
- Technical Service
- Polymer synthesis
- Packaging development

## EDUCATION

**PhD**, Chemical Engineering Department, Ryerson University, Toronto, Canada, 2008-2010

**MASc**, Chemical Engineering Department, Ryerson University, Toronto, Canada, graduated 2007

**BSc**, Polymer Chemistry Department, Wuhan University, P. R. China, graduated 1988

## EMPLOYMENT HISTORY

**PhD and MASc thesis in membranes' surface modifications which can be used in water and waste water treatment**

**Exopack Canada,**

**2004-2009**

**R&D engineer**

**2007---2009**

- Developed recipe for new products and implemented trials on machine. Produced the new products according to customers' needs.
- Wrote trial report and standard operation guideline (SOG)
- Modified process and equipment, improving products' quality
- Analyzed complaint and root cause. Made improvements in the method, improving the manufacturing process

**Contribution:** implemented more than a hundred of TRPs (Trial reset procedure) for blown film and adhesive lamination.

**Pricing, lab technician & technical support 2004--- 2007**

- Estimated material price, operation cost and margin for sales staff to use
- Analyzed samples for quality. Prepared certificate of analysis (COA). Maintained and audited quality system.
- Wrote specification of products, improving process
- Investigated non-conformance, and submitted the correction action report

**Contribution:** key person for Procter &Gamble packaging materials quality control and CoA preparation; skillfully use equipments of IR, optical microscope, GC, Lloyd for COF and tensile strength.

**Southern Packaging Co., Ltd., Guang Dong Province, China 2000---2003****Engineer, R & D and production manager**

Managed daily production and a staff of 200

- Designed new products, tested and improved recipe for new products
- Modified process and equipment, set-up and verified new equipments to enlarge the production capability
- Explored and tested substitute raw material to reduce production cost

**Contribution:** Designed and developed Nestle fast packing sachet film (1200 bag/min), and Kraft Tang gusset bag film

**Ngai Mee Packaging Industry Co., Ltd., Guangzhou, China 1996---2000****Technical & Quality manager**

**Contribution:** Provided directly technical service to salesman and customers, obtained ISO-9002 certificate, provided packaging materials training to Warner-Lambert (Pfizer) staff

**Foshan Polyester Fiber Complex Company, Guang Dong Province, China 1988---1996****Team leader of process engineering**

Joined the \$30 million project of Foshan Flying Horse Polyester Plant including waste water treatment device design as a key person

**Yueyang Petroleum and chemical Co., Hunan Province, China 1986---1986**

Learned refinery system operation.

**CERTIFICATES**

Applied P. Eng of Ontario file No# 100140853; Chemical Process Engineer, 1993

ISO-9000 Trainer, 1993, 1999, 2001

**AWARDS**

- Graduate Study Award, in Ryerson University, 2006, 2008
- Excellent contribution of innovation and process modification award, in Foshan Polyester Fiber Complex Company. 1995.
- Excellent Student Award and First-grade scholarship, in Wuhan University, 1984, 1985, 1986.

**PUBLICATION**

Research article published at Chemical Engineering Technology, 2009, 32, No. 5, 726-731

**AFFILIATIONS**

Secretary of Ryerson Student Chapter of WEAO (Water Environment Association of Ontario)