XIAOYU LIANG

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SUMMARY OF QUALIFICATIONS

- Six years of experience in chemical engineering and technology industry
- Rich experience in analytical engineering, such as office suite, Auto-CAD, Premiere Pro, analytic software
- Good leadership, analytical, organizational, problem solving, and communication skills

EDUCATION

Master of Science in Chemical Engineering 09.2012-01.2014
University of Washington**,** Seattle, WA
– Core Courses: drug delivery, thermodynamics, transport, engineering mathematics

Bachelor of Science in Chemical Engineering and Technology 07.2008-07.2012
Beijing University of Chemical Technology**,** Beijing, China

PROFESSIONAL EXPERIENCE

Research on Functional Biomaterials, From Molecular Modeling to Product Development 09.2012-Present
University of Washington

– Design the self-assembly structure of PCBMA-PEGMA-PDMS.
– Invent a holistic approach of synthesis via simulation and experiments.
– Study different phase morphologies of the triblock blends in different solvent mixture.
– Explore morphologies of triblock molecular using DLS, AFM, TEM spectroscopy systems.
– Improve efficiency of layer absorption and desorption by 60%.

Process Engineer assistant, Sinopec Beijing Yanshan Petrochemical Company 09.2011-10.2011
– Provided proven economic benefits through designing Aspen Plus model for the desulfurization of wastewater.
– Improved the operation efficiency by using hydrocracking technology with research engineer team.
– Contributed to the design of distillation column and the heating exchanger.
– Performed market research in the functions of desulfurization of wastewater

Research on Treatment of Wastewater using HFRLM Liquid Membrane 08.2010-06.2012
Beijing University of Chemical Technology

– Designed the optimized HFRLM module.
– Found the best operation condition to stable the HFRLM liquid membrane.
– Reduced energy consumption and equipment investment using HFRLM.
– Improved the closed wastewater cycle system that processed 3 million gallons of wastewater per day.

Intern Technician, P&G 07. 2009-08.2009
– Improved high-pressure oil hydrolysis device and vacuum drying device through DCS control system.
– Mastered the operation of key equipment such as fatty acid production system.
– Gathered business, technical, and functional requirements for a new imaging archive and viewer system

SKILLS

Computer Skills: DLS, AFM, TEM, Aspen HYSYS, Auto CAD, Micro office software.

Professional Skills: nanotechnology, polymer chemistry, data analysis, molecular techniques, spectroscopy, extraction technology, process simulation, linear algebra