
Samuel T. Tran

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Education

Colorado School of Mines, Golden, CO – August 2009 to May 2013

- Chemical and Biochemical Engineering
- Graduated May 2013
- Cumulative GPA 2.9

Experience

Senior Design Project – January 2013 to May 2013

- Conversion of biomass feedstock to bio-oil products using pyrolysis and gasification
- Designed two different processes to compare the biomass conversion techniques
- Detailed economic analysis to determine the feasibilities of the two processes

Unit Operations Laboratory– July 2012 to August 2012

- Operation of common equipment and processes used in the chemical industry including membrane separation, distillation, tank heating, compressed air flow, heat exchange, and gas absorption
- Team lead position for multiple group projects and presentations
- Equipment troubleshooting and experimental data collection experience

Laboratory Experience – August 2009 to May 2011

- Quantitative Analysis, Physical Chemistry, and Organic Chemistry Laboratories
- Both team and individual lab work using a variety of lab techniques

Biochemical Process Design – January 2010 to April 2010

- Designed production processes for bio-plastics and bio-fuel from algae
- Made team presentations on designed processes for both projects

City of Golden Small Wind Sustainability Project – January 2010 to April 2010

- Examined the feasibility of small wind turbines for the City of Golden

Society of Asian Scientists and Engineers (SASE) – August 2010 to Present

- Leadership Position – January 2011 to May 2013
- Actively participated in professional meetings and volunteer activities while a member

SASE Spring Mountain Regional Conference– November 2012 to March 2013

- Planned a successful SASE Regional Conference with 130 attendees including both students and professionals
- Organized workshops and activities that allowed attendees engage in topics including professionalism and networking

LHS Environmental Club – September 2006 to May 2009

- Served as Club President 2007-2009
- Coordinated weekly LHS recycling program for all classrooms and school atrium

Achievements

Defenders of the Planet Award – April 2009

- Received “Defenders of the Planet” 2009 Award from the City of Lakewood for Environmental Work Achievements

Skills

Utilize

- COMSOL, Aspen Plus, Polymath, Microsoft Excel, Microsoft Word, Microsoft Visio, Microsoft Power Point