

Daniel Kurniawan

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OBJECTIVE

A co-op or summer internship opportunity to gain an industry experience in chemical engineering.

EDUCATION

University of Wisconsin–Madison

Expected 2018

B.S. Chemical Engineering – Minor in Computer Science

GPA: **3.93** / 4.00

WORK EXPERIENCE

Chemical Engineering Research and Development Intern

May 2016 – August 2016

National University of Singapore

Singapore

- Performed computational fluid dynamic (CFD) simulation using ANSYS Fluent to analyze nanoparticle mediated drug delivery to brain tumor.
- Developed mathematical models and numerical platform in Excel to predict and identify the impact of drug properties on drug delivery.

Undergraduate Research Assistant – Process System Engineering

September 2015 – Now

Department of Chemical and Biological Engineering, UW-Madison

Madison, WI

- **Publication (Book Chapter):** Wu, W.; Kurniawan, D.; Zhu, W.; Maravelias, C.T. Composite-Curve-Based Biomass Procurement Planning Approach. *Advances in Energy Systems Engineering* (Editors: Kopanos, G.M.; Liu, P.; Georgiadis, M.C.). Springer, 2016.
- Designed and developed a large-scale software in Excel VBA and Matlab that provides an automation interface and a numerical implementation of a novel biomass procurement planning model. Maintained a high standard of code modularity, scalability and readability while providing an extensive documentation for future use.
- Explored the feasibility of incorporating real world geospatial database as an input to the procurement model using ArcGIS, Microsoft Access and Matlab.

Procurement Manager

September 2015 – May 2016

University of Wisconsin-Madison, College of Engineering

Madison, WI

- Streamlined materials procurement / supply chain for an engineering design class of 500 students.
- Ensured a timely and accurate supplies delivery by maintaining communications with both students and vendors.

ACTIVITY AND LEADERSHIP

Indonesian Student Association (Finance / Vice-President): Organized events for students to promote campus cultural diversity. Managed financial affairs of the organization. Responsible for securing \$2000 grants in total to ensure a healthy financial status.

American Institute of Chemical Engineers (Outreach Volunteer): Volunteered as a tutor to help the science olympiad preparation of 15 high school students in Waunakee High School.

SKILLS

Excel
L^AT_EX
Word

VBA
Java
PowerPoint

Matlab
Julia
Access

ANSYS Fluent
Python

ArcGIS
R