

Michael D. Dummeldinger

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EDUCATION

Honors Bachelor of Chemical Engineering, University of Delaware, Newark, DE May 2014
Minors: Chemistry and Sustainable Energy Technology
GPA: 3.914
Dean's List Fall 2010 – Present

EXPERIENCE

Researcher, Chemical Engineering Department, Newark, DE Summer 2013 – Present

- Synthesis and characterization of collagen-mimetic peptides
- Synthesis and characterization of hydrogels created through photo-polymerization
- Work with lung fibroblast cell cultures to determine causes of onset of idiopathic pulmonary fibrosis

Researcher, Institute of Energy Conversion, Newark, DE Summer 2012 – Winter 2013

- Use MATLAB to analyze infrared pictures of solar cells to produce cell quality data.
- Work with equipment including thermocouples, infrared cameras, metallurgical microscopes, and high vacuums.
- Use shop machines to manufacture pieces of equipment for solar cell processing and analysis.

Carry Out, Bertucci's Italian Restaurant, Huntingdon Valley, PA Summer 2010 – Winter 2012

- Dealt with customers directly on the phone and in person.
- Worked with other employees to provide efficient and welcoming service to all customers.

SKILLS

Proficient in Microsoft Windows-based PC systems; Skillful in Microsoft Office-Word, Excel, PowerPoint, and Publisher; Experienced in Python and Matlab programming languages; Proficient in AFT FATHOM software; Working knowledge of Maple14, Aspen, ANSYS FLUENT, and EPI-Suite 4.1; Superior communication, writing, and internet searching skills; Knowledge of German language.

HONORS/MEMBERSHIPS

Sylvia and Chase Joanedis Scholarship
Class of 1953 Scholarship
University of Delaware Scholarship
Member of Tau Beta Pi Engineering Honor Society May 2013 – Present
General Honors Award Fall 2012
Member of the American Chemical Society August 2011 – Present
Member of the American Society of Chemical Engineers August 2011 – Present