

Hannah Kempton

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Education

Massachusetts Institute of Technology Cambridge, MA
• Candidate for Bachelor of Science in Biological Engineering 2011-present
• GPA: 5.0

Research and Work Experience

Delaware Biotechnology Institute: Research Assistant Newark, DE
• Optimized sample preparation conditions to maximize recovery of Chinese hamster ovary (CHO) host cell proteins to increase utility of proteomic analysis such as 2D gels Summer 2012
• Worked with cell culture, protein assays, SDS-PAGE gels, and analyzed data using JMP Pro
University of Delaware, Department of Chemical Engineering: Research Assistant Newark, DE
• Simulated chemical reactions using KME software (kinetic model editor) Summer 2011
• Graphed and analyzed the data using Excel
AstraZeneca: Civil Engineering Intern Wilmington, DE
• Studied efficiency of chillers installed in a building on site, and presented findings to overseeing Project Manager and entire Engineering department Summer 2010
• Tested efficiency of DAS (distributed antenna system) throughout campus to determine need for potential upgrade
Drexel University, Department of Chemical Engineering: Summer Mentorship Philadelphia, PA
• Prepared solutions of Poly(methyl methacrylate) in acetone to coat glass slides Summer 2009
using a spin coater for applications in creating more efficient solar cells
Delaware Science Fair March 2009
• Worked collaboratively with a partner and a DuPont scientist to investigate the concentration of the artificial flavoring diacetyl in butter substitutes to determine risk of lung disease
• Won Certificate of Appreciation from US Department of Agriculture for Outstanding Agricultural Research Exhibit at Delaware Valley Science Fairs

Activities

Society of Women Engineers Jan 2012-present
• Professional Development co-chair
• Organized events to improve members' professionalism and prepare members for acquiring and succeeding in jobs and internships in the future
Science Olympiad 2008-2011
• Member and Co-President of a team of 30 students
• Placed first team in the state 3 consecutive years, and went to National competition each year
• Won 10 individual awards, including 4th and 5th place nationally
Pianist 2001-2011
• Took lessons from the University of Delaware Music School
Karate 2000-2011
• Earned 2nd degree black belt in Tang Soo Do Karate

Awards

Chosen by Delaware Engineering Society for the Joe J. Welker Scholarship 2011
National Merit Finalist 2011
"Meritorious" in 12th International High School Mathematics Contest in Modeling 2010
American Association of University Women Award for Excellence in Science and Mathematics 2010