Dylan Benkley

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EDUCATION:
Syracuse University, College of Engineering and Computer Science
B.S. in Mechanical Engineering, Graduated May 2014
GPA: 3.30

SKILLS: AutoCAD, SolidWorks, MATLAB, Excel, Microsoft Word, PowerPoint

RELATED COURSEWORK:

Control Systems	Fundamentals of Heat and Mass Transfer
Engineering Economics and Technical Valuation	Synthesis of Mechanical Systems
Mechanical and Aerospace Engineering Laboratory	Automotive Engineering

PROFESSIONAL EXPERIENCE:

Boston Power Inc., *Mechanical Engineering Intern* **June 2013 - August 2013**
Worked on design and testing for green, rechargeable, lithium-ion battery cell blocks and modules; designed test parts in SolidWorks for use in the laboratory; communicated with vendors to purchase materials and testing equipment.

L.C. Smith College Invention and Creativity Competition, *Prize Winner* **Spring 2012**
Involved a focus on product development in building a practical invention prototype for a walker using engineering concepts as well as entrepreneurial ideas in market research and presentation.

Becket-Chimney Corners YMCA, *Travel and Service Program Leader* **June 2015-August 2015**
Lead a group of 15 high school age students on a 5 week trip to Australia with a focus on leadership, cultural learning, and community service. Responsibilities as a leader included caring for well-being of participants, teaching leadership qualities, facilitating and planning group travel and activities, and working closely with host partners and local YMCA.

ENGINEERING APPLICATIONS:

Synthesis of Mechanical Systems: Senior Design Project. Chose to study and design an energy optimization system of the Tennity Ice Rink on Syracuse campus with 4 other students. Involved the application of fluid dynamics, thermodynamics, and heat and mass transfer. The project also included research into the floor plans and designs of the current systems including the refrigerator and dehumidifier.

Fundamentals of Heat and Mass Transfer: Knowledge of the principles of heat and mass transfer including conduction, convection, and radiation. Knowledge includes but is not limited to the thermal properties of materials, steady state and transient heat and mass transfer, convective mass transfer, and diffusion with chemical reactions.

Mechanical and Aerospace Engineering Laboratory: Conducted lab experiments relating to fluid dynamics (tested and analyzed an airfoil in a wind tunnel and calculated values including lift, drag, Reynolds and Strouhal numbers), digital signal processing, and solid mechanics. Performed calculations using MATLAB and wrote reports for each.

OTHER EXPERIENCE:

Berkshire Outdoor Center, *Program Instructor* **August-November 2015**
Carlisle Public School, *Substitute Teacher* **March-June 2015**
World Travel **August 2014-January 2015**
Four months of solo travel to Thailand, Laos, Vietnam, and Cambodia. Valuable experience gained in learning local cultures, general travel, foreign transportation, communication, and the challenges and dangers experienced travelling abroad and how to solve them and keep safe.
Camp Becket YMCA, *Camp Counselor* **Summers 2009-2012**