

Brandon K. Williams

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EDUCATION

Northwestern University, Evanston, Illinois

Master of Science in Engineering Design Innovation

Anticipated December 2014

Cumulative GPA: 3.75/4.00

Bachelor of Science in Mechanical Engineering

June 2013

Cumulative GPA: 3.42/4.00

COURSE PROJECTS

Design Studio 1

Fall Qtr. 2013

Client: Proctor and Gamble, Cincinnati, OH

- Worked in a team to develop a next-generation product package for an established brand
- Conducted in-home user observations/interviews to understand the users' needs
- Developed multiple full-scale prototypes to test ergonomics and functionality

Computer Integrated Manufacturing: CAD/CAM

Winter 2012

Client: Nettlehorst Elementary School, Chicago, IL

- Worked with 4th grade students to design an injection molded Swiss-Army knife product
- Used CAD/CAM software to design parts and mold halves and to machine molds via CNC
- Ran a small production of products to distribute to the students

WORK EXPERIENCE

Hospira Inc., Lake Forest, IL

Summer 2013

Engineering Design Intern

- Conducted focused research with multiple stakeholders including doctors and nurses
- Designed an update to an existing product under the constraints of existing tooling and manufacturing processes
- Used 3D printing methods to create prototype parts

K2 Plastics Inc./All-State Industries Inc., Elkhart, IN/Des Moines, IA

Spring/Summer 2012

Lead Designer

- Led the design process for a prototype acoustic guitar case for Gibson USA
- Successfully collaborated with clients in Des Moines, Iowa while in school in Evanston, Illinois
- Used SolidWorks models and renderings to communicate design ideas and design final parts for creation of a physical prototype

LEADERSHIP/TEAMWORK

Northwestern Varsity Football, Evanston, IL

Fall 2009 – Fall 2013

Member

- Balanced a rigorous course load with the demands of being a Division I Big Ten athlete
- Walked on to the team in 2009 and earned a starting role and scholarship in 2010
- Named Academic All Big Ten four times

SKILLS

Computer

Proficiency: SolidWorks, PhotoView 360, and MS Office Suite

Experience: MATLAB, Mathematica, CSS3, HTML5, and Adobe Suite

Building

Experience: Woodworking, Mold-making, Welding, CNC Machining, Mockup Generation, Plastic Injection Molding, and Vacuum-Forming