

Brandon K. Williams

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EDUCATION

Northwestern University, Evanston, Illinois

Bachelor of Science in Mechanical Engineering &

Certificate in Engineering Design

Cumulative GPA: 3.37/4.00

Anticipated June 2013

COURSE PROJECTS

Interdisciplinary Design Projects I & II

Fall Qtr. 2012 - Winter Qtr. 2013

Client: Non-Sequitur Solutions, New York, NY

- Worked with a small startup to develop an antimicrobial doormat product
- Conducted in-home user observations/interviews to understand the users' wants
- Successfully negotiated a shift in design direction with the client

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 machine molds via CNC
- Ran a small production of products to distribute to the students

WORK EXPERIENCE

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

K2 Plastics Inc., Elkhart, IN

Summer 2011

Engineering Assistant

- Designed and fabricated a quick-release system for clamping tools, an expanded work stage, and a storage unit for clamps for a MAAC thermoforming machine
- Built multiple molds for thermoforming using various woodworking and finishing techniques
- Designed and tooled the first production sinks and built molds for several other sinks

LEADERSHIP/TEAMWORK

Northwestern Varsity Football, Evanston, IL

Fall 2009 - Present

Member

- Balance 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 three times

SKILLS

Computer

Proficiency: SolidWorks, PhotoView 360, and Pixelmator

Experience: MATLAB, Mathematica, and UGS NX

Building

Experience: Woodworking, Mold-making, Sewing, Welding, CNC Machining, and Mockup Generation