

Brandon K. Williams

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EDUCATION

Northwestern University, Evanston, Illinois

Bachelor of Science in Mechanical Engineering & Certificate in Engineering Design Anticipated June 2013

Cumulative GPA: 3.37/4.00

Relevant Courses: Engineering Analysis, Engineering Design and Communication, Public Speaking, Calculus, Design and Manufacturing, Computer Integrated Manufacturing, Advanced SolidWorks, Interdisciplinary Design Project I and II

COURSE PROJECTS

Engineering Design and Communication

Client: Steve Jacobson, Chicago, IL

Spring 2010

Designed and prototyped a bicycle attachment that gave the user the ability to safely ride in the snow. Led design team in brainstorming, sketching, initial design, prototype development and testing. Also created the final design sketches for presentation to the client. Communicated directly with client throughout the entirety of the project as well as organized team meetings and meetings with faculty. Awarded as a team for best final presentation to the client.

Computer Integrated Manufacturing: CAD/CAM

Winter 2012

Client: Nettlehorst Elementary School, Chicago, IL

Worked with fourth grade students at Nettlehorst Elementary School to design and develop an injection molded product. Worked in CAD/CAM software to turn design sketches into molds and parts. Ran a small production of parts to assemble and distribute to the students who helped design them.

WORK EXPERIENCE

Northwestern Athletics Communications, Evanston, IL

Communications Intern

Fall/Winter 2010

Helped design, update, and proofread both online and print media.

K2 Plastics Inc., Elkhart, IN

Engineering Assistant

Summer 2011

Helped to design and fabricate several improvements to a MAAC thermoforming machine including: a quick-release system for clamping tools, an expanded work stage, and a storage unit to store clamps. Built multiple molds and tools and ran a CNC machine for finishing processes on final parts. Designed and helped tool the first production sink as well as helped to tool several other sinks.

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. Collaborated with the sellers at All-State Industries and the manufacturers at K2 Plastics while in Evanston, IL. Used sketching and 3D modeling/rendering techniques to communicate design ideas to both parties. Used complex surface modeling in SolidWorks to design the final plastic shell and foam inserts for manufacture of a physical prototype. Aided in the tooling and production of the final prototype.

LEADERSHIP/TEAMWORK

Northwestern Varsity Football, Evanston, IL

Member

Fall 2009 - Present

Balance a rigorous course load with the demands of being a Division I college athlete in the Big Ten.

Started as a punter and holder in 2010, '11, and '12 and was named Academic All Big Ten three times.

SKILLS

Computer

Proficient in Microsoft Word, Excel, PowerPoint, SolidWorks, PhotoView 360, Adobe Photoshop, Pixelmator, and both Windows and Macintosh. Experience in MATLAB, Mathematica, and UGS NX.