Shaun VanWeelden

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A Strong Educational Background

Iowa State University – Graduating **May, 2015** Software Engineering - GPA: 3.12/4.0 **Pella High School** 2007-2011 Went to Valencia, Spain summer 2012 to study abroad with ISU Studied Spanish in Madrid, Spain for 6 weeks, summer '10-'11

I Turn Passion into Experience

I am passionate about:

Enhancing my Technical Skills

MATLAB Graphics Engineering Intern '13

- Worked at the MathWorks headquarters in Natick, MA for one semester
- Designed test suites to analyze customer and internal code primarily with graphics
- Provided usability and functional recommendations for MATLAB updates

Union Pacific Systems Engr. Intern '13

- Developed system to remotely monitor the status of RFID locks on shipping containers
- Wrote FTP and HTTP Server in Python to handle data visualization and storage

Oak Ridge National Laboratory Intern '12

- Designed image processing GUI's to characterize soot particle images
- Developed full suite of tools to improve usability inside the MATLAB environment

Toying with Technology TA '13

- Class for Education majors on how to teach engineering to kids in an exciting way
- Designed and graded course projects

MATLAB Curriculum Development '12

 Set up data acquisition sensors and designed content for class integration

MATLAB Tutor and Grader '12

- Tutored introductory MATLAB and problem-solving class 10 hours/week
- Led review sessions, proctored exams, and graded homework for MATLAB class

Under-Graduate Research '1

- Designed MATLAB GUI to assist with analysis of photo-voltaic cells for efficiency
- · Won technical presentation skills award

Being Involved in my Community

Iowa FIRST LEGO League Chair

- Added innovation to the university's largest engineering outreach event of the year
- Coordinated 12 regional events across Iowa impacting nearly 4,000 kids across the state
- Led 15 member planning team and oversaw all operations of the event

Engineering Student Council VP of Outreach

- Plan college-wide outreach event, 200+ kids
- · Carry out various student council duties

Engineer's Week Publicity Co-chair '12

- Led sub-committee meetings planning for promoting college's largest event of the year
- Designed, chose, and ordered promotional materials such as fliers, sharpies, and t-shirts
- Worked extensively with on-campus tools to raise awareness in a very cost effective way

Spring Career Fair – Advertising Chair '12

- Did all advertising and publicity for one of the largest indoor career fairs in the nation
- Designed nearly all promotional materials for the fair and maintained social media

American Society of Mechanical Engineers

- Organized over 15 speakers, outreach events, and social activities for the club
- Planned two ASME conference trips entirely

Engineering Outreach for K-12 Students '1

- Represented Iowa State at several conferences, legislative days, corporate presentations, and local outreach events
- Participate in Minds of Tomorrow, an engineering outreach group on campus

Freshman Honors Program '11

 Nominated for "Outstanding Member" scholarship

Entrepreneurship and Marketing

12

'13

Collegiate Competition Success

- Won "Best Overall" and "Audience Choice" in the ISU Business Pitch competition for a LEGO mosaic pitch
- Placed in top 5 in the ISU Business Plan competition for same mosaic idea

Started the ISU Ticket Trader, a place for ISU students to buy and sell tickets online

- Close to 5,000 students participating
- At times, 400+ tickets are traded per week

Freelance Programmer and Consultant

- Find my own work and work mostly in the realm of image processing and GUI's
- Over \$3,500 in profit from clients around the world since starting in March '13

MathWorks Student Ambassador '13

 Lead product demos, organize contests, and promote student and faculty use of MathWorks products within the college
 Okoboji Entrepreneurial Institute

• 1 of 8 selected to represent ISU at Institute

• Gained first-hand knowledge of business concepts and business pitch experience

Brand Ambassador (various brands)

 Weekly product demos at Costco and Target, closed sales on a regular basis

Started Brick-Builders, an online store that

sold new Lego bricks and sets globally • Started October 2010 with \$100 investment,

- over \$30,000 in sales in first year and a half

 Did business in over 30 countries and on six
- continents, did the shipping myself

Started Creatively Cute, sold custom handmade jewelry out of Lego pieces

- Sold online, at craft shows around Iowa
- Over \$2,000 in sales first summer

Rapidly Increasing Technical Skills

MATLAB (Expert User)

- Image Processing
- GUI design and back-end coding
- Structures/Object-Oriented Programming
- Data Acquisition
- Data Visualization

Programming

- Java (Intermediate)
- Python (Intermediate)
- HTML/CSS (Intermediate)
- Familiar with VBA (Beginner)Teaching basics of programming

General

- Business Spanish
- QuickBooks
- Microsoft Office (very advanced)
- Community Outreach
- STEM Education Legislation