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EDUCATION

- Oregon State University**, Corvallis, Oregon, USA 3.86 GPA September 2007 to Present
- Masters of Science in Mechanical Engineering – Design Methodology
- Oregon State University**, Corvallis, Oregon, USA Cum Laude September 2001 to June 2007
- Honors B.S. Mechanical Engineering • Honors B.A. International Studies • Business Administration Minor
- Universität Karlsruhe**, Karlsruhe, Germany June 2005 to September 2005
- Research in humanoid robotics and related systems
- Université du 7 Novembre à Carthage**, Tunis, Tunisia September 2004 to June 2005
- Coursework in Arabic language, Tunisian culture, women's studies, and environmental science

RESEARCH EXPERIENCE - DOMESTIC

- National Center for Accessible Transportation** – Oregon State University – Fall 2007 to Present
Graduate Research Assistant
- Conduct research on increasing safety and usability of airline aisle chairs for mobility-impaired passengers
 - Write and review papers for publication in journals and conference proceedings
 - Research mechanical design methodology and new ways of incorporating cultural considerations into the process
- Oregon State University Research Diving Program** – Oregon State University, Corvallis, Oregon May 2008 to Present
Research Diver
- Dive on underwater structures to count and/or capture marine life, perform construction and maintenance on man-made structures, and collect samples in support of ongoing underwater research
 - Support general ship-board operations and research while at sea and in port

RESEARCH EXPERIENCE - INTERNATIONAL

- Universität Karlsruhe Institut für Produktentwicklung**, Karlsruhe, Germany July to September 2005
Deutscher Akademischer Austausch Dienst - Research Internships in Science and Engineering (DAAD-RISE) Research Fellow
- Designed 6 DOF humanoid robotic shoulders
 - Translated and proofread technical papers and posters from German to English
 - Worked as part of German university research team using technical German and English

TEACHING EXPERIENCE

- Introduction to Design** – Oregon State University – Graduate Teaching Assistant – Fall 2008
- Co-teaching two recitation/lab sections of 25-30 junior-level students with a fellow graduate student
 - Anticipating teaching a lecture during term under supervision of the course professors, Dr. Irem Tumer and Dr. Dave Ullman
- Introduction to Mechanical Engineering** – ME 101 - Oregon State University – Head Graduate Teaching Assistant – Fall 2007
- Created weekly recitation lesson plans for freshman course with guidance from course professor, Dr. Joe Zaworski
 - Graded 150 freshman students' homework, handled grading disputes, and communicating grades to students
 - Coordinated and monitored nine undergraduate teaching assistants who directly taught the recitations
- Introduction to Mechanical Engineering** – ME 101 - Oregon State University – Undergraduate Teaching Assistant – Fall 2006
- Taught three two-hour recitations under the guidance of the course professor, Dr. Joe Zaworski
 - Assisted students with homework and in-class exercises
 - Graded homework and reported grades to course professor

CONFERENCE PROCEEDINGS

D. Van Bossuyt, B. Gibson, U. Wörz, and J. Zaworski. **The Integration of Affective Design into QFD** 2008 ASME International Design Theory and Methodology Conference, IDETC/DET2008

FORTHCOMING JOURNAL ARTICLES

D. Van Bossuyt, B. Gibson, and J. Zaworski. **Integrating Cultural Dimensions into the House of Quality (HoQ)** The International Journal of Design Principles and Practices, Expected Winter 2009

CONFERENCE POSTERS

D. Van Bossuyt, K. Wilson, C. Moen, R. Hess, E. Miles, K. Seniow. **When to Quit: What to Consider Before Abandoning a Project** 2007 EWB International Conference

C. Moen, K. Wilson, K. Seniow, D. Van Bossuyt, R. Hess, E. Miles. **Water System** 2007 EWB International Conference

CONFERENCE PRESENTATIONS

D. Van Bossuyt, B. Gibson, U. Wörz, and J. Zaworski. **The Integration of Affective Design into QFD** 2008 ASME International Design Theory and Methodology Conference, IDECT/DET2008

D. Van Bossuyt. **Mercury Rising: Health Consequences of Mercury Exposure in the Engineering Profession** 2007 ASME District D Student Professional Development Conference

CONFERENCE PANELS

Chapter Management Techniques – 2007 EWB West Coast Conference

UNDERGRADUATE THESES

D. Van Bossuyt. **The Eyes of Tunis** Oregon State University Honors College Thesis 2007

D. Van Bossuyt. **International Engineering Interns in their Own Words: Past Interns Share their Stories and their Wisdom with the Future** Oregon State University International Degree Program Thesis 2007

MAGAZINE PUBLICATIONS

D. Van Bossuyt, D. Shapiro. **From the Editors** in *University Honors College Chronicle* Fall 2007

D. Van Bossuyt. **The Drunken Ninja of Thala** in *University Honors College Chronicle* Fall 2007

D. Van Bossuyt. **Uncle Douglas does Dinner** in *University Honors College Chronicle* Fall 2007

K. Lyon, D. Van Bossuyt. **The Cherry Play** in *University Honors College Chronicle* Fall 2007

J. Moser, D. Van Bossuyt. **It's Funny Where the Time Goes: The True Story of how we Lost this Issue** in *University Honors College Chronicle* Spring 2006

D. Van Bossuyt. **Changing the Chronicle's Old Guard** in *University Honors College Chronicle* Spring 2006

- J. Moser, D. Van Bossuyt. **From Two Editors: Behind the Scenes at The Chronicle** in *University Honors College Chronicle* Winter 2006
- D. Van Bossuyt. **The Night Bus to Tunis** in *University Honors College Chronicle* Winter 2006
- D. Van Bossuyt. **Tunisia: Not Just Camels – But they Have that too!** in *University Honors College Chronicle* Spring 2005
- D. Van Bossuyt. **I am the Woodsman. I am the Businessman. Each of us Imprisoned** in *University Honors College Chronicle* Spring 2004
- D. Van Bossuyt, S. Knotts. **Jack** in *The Nuts and Volts of Amateur Robotics* August 2002 Supplemental Issue

EDITORIAL ROLES

Editor-in-Chief of *University Honors College Chronicle* 2006-2007

Co-Editor of *University Honors College Chronicle* 2005-2006

PROFESSIONAL EXPERIENCE – INTERNATIONAL

Centre d'études maghrébines à Tunis, Tunis, Tunisia February to June 2005

International Education, Experience, Employment (IE3) Intern

- Helped organize and provide logistics for academic conferences
- Developed part of and ran the first U.S. Department of State Critical Language Scholarship program
- Served as interpreter and escort for visiting academics

Marbrerie Tunis Carthage, Tunis, Tunisia January to June 2005

Maintenance Engineering Intern

- Investigated automation of marble block cutting equipment to improve efficiency and safety
- Researched efficiency improvements of numeric marble milling machines
- Interacted directly with Tunisian workforce in both Modern Standard and Tunisian dialect Arabic

PROFESSIONAL EXPERIENCE - DOMESTIC

Rosendin Electric Inc, Hillsboro, Oregon June 2007 to September 2007

Construction Engineering Management Intern

- Supported master scheduler using Primavera on a multi-billion dollar construction project
- Worked with project managers to obtain needed materials, schedule manpower, and inspect subcontractor work
- Assisted securing permits and inspections for various commercial and industrial construction projects

Flextronics International, Corvallis, Oregon December 2006 to March 2007

Hewlett Packard test tool construction group, Intern – Build Supervisor

- Led a team of three assemblers constructing ten test tools for multiple international Hewlett Packard sites
- Created assembly instructions and trained assemblers

Electro Scientific Industries, Beaverton, Oregon April to September 2006

Electronic Component Solutions group, 35xx Project, Multiple Engineering Cooperative Program (MECOP) Intern

- Researched, designed, and implemented pneumatic (CDA & VAC) subsystems for new product
- Set customer site requirements for new product
- Selected, qualified, and integrated many electrical power distribution components

- Freightliner LLC (a DaimlerChrysler company)** Portland, Oregon, USA April to September 2004
Manufacturing Engineering, Test and Technology Group, Multiple Engineering Cooperative Program (MECOP) Intern
- Designed, built, tested, and deployed several production electronic equipment test machines
 - Designed and deployed several tools to production lines across the Freightliner North American factories
 - Wrote Programmable Logic Controller (PLC) code for test equipment
- Planar Systems, Inc.** Beaverton, Oregon June to September 2003 & 2002
American Electronics Association (AeA) Manufacturing Engineering Intern
- Designed and implemented tooling and fixtures in support of the LCD and EL manufacturing process
 - Created and revised work instructions supporting the manufacture of LCD and EL products
 - Conducted R&D work on ultra-bright transfective LCD displays
- Portland General Electric**, Salem, Oregon June to September 2001
Groundsman and Traffic Safety Technician
- Supported aerial operations from the ground by building up cross-arms, transformers, and other activities
 - Controlled traffic flow at worksites to ensure the safety of power crews and general public
 - Worked in any condition, day or night, in support of outage repair to keep the grid running

TECHNICAL VOLUNTEER EXPERIENCE

- Engineers Without Borders – Oregon State Chapter**, Corvallis, Oregon September 2005 to Present
Past President (2006-2008), Member
- Led 50 active and 200 interested student members (100% volunteer-based)
 - Group is currently working on a water treatment and distribution project in El Salvador
 - Organized and ran weekly meetings, workshops, seminars, and other activities
- Center for Writing and Learning –Oregon State University**, Corvallis, Oregon October 2005 to Present
Technical Writing Assistant
- Work with domestic and international students to improve their technical writing abilities
 - Worked with multiple PhD candidates to proof their dissertations, research proposals, and funding requests
 - Cross-train writing assistants from other disciplines to better serve the technical writing community
- Engineers Without Borders – West Coast Region** December 2007 to Present
State of Oregon Representative to the Board
- Represent Oregon on board of directors for the West Coast region of Engineers Without Borders
 - Hold regular conference calls with all Oregon chapter presidents and the West Coast board
 - Facilitate information sharing and exchange between chapters, regional governance, and national organization
- Oregon State University PADI SCUBA Program – Oregon State University**, Corvallis, Oregon September 2007 to Present
Divemaster
- Support and help instructors supervise beginning and advanced dive students
 - Work as part of a team to ensure safety of dive operation, satisfaction of students, and enjoyment of all participants
 - Help beginning divers one-on-one to overcome obstacles to their success as SCUBA divers
- University Honors College Chronicle Student Magazine**, Corvallis, Oregon September 2003 to June 2007
Editor in Chief, Contributing Author
- Published two magazines per year to showcase Honors College student work and talent
 - Solicited, copy edited, chose for publication, and published all-student submissions
 - Interacted with Honors College staff to secure support and funding for publication
- NHS Robotics Team**, Newberg, Oregon September 1997 to June 2001
Team Leader, Designer, Machinist
- Worked with and lead a team of 15 people designing robots to compete in international design contests
 - Designed robots in the following categories: humanoid, animal mimicry, bomb disposal, gladiator combat
 - Won several major international design contests (see Honors and Awards section of this document)

SOFTWARE PACKAGES & PROGRAMMING LANGUAGES

- SolidWorks
- Pro-E
- AutoCAD
- MasterCAM
- Delmia
- I-Deas
- Lab View
- Microsoft Word, Access, Excel, PowerPoint, Publisher, Visio
- Square-D PLC programming
- Adobe Photoshop
- Allen-Bradley PLC programming
- MATLAB
- Sketch-It
- Autodesk Inventor
- HTML
- Prima Vera
- CATIA
- LaTeX

PROFESSIONAL MEMBERSHIPS

- Engineers Without Borders
- American Society of Mechanical Engineers
- Pi Tau Sigma – Omega Chapter
- Professional Association of Diving Instructors (PADI)
- American Academy for Underwater Science Standards

HONORS AND AWARDS

- Named one of the 25 most influential undergraduates at Oregon State University
- Waldo-Cummings Outstanding Senior Award
- Graduated Cum Laude
- Mortarboard Senior Honor Society
- Presidential Scholar
- Honor Roll – ten times
- Opportunity Plus program
- Society of Manufacturing Engineers International Design Challenge Judge's Choice Award: 2001 & 1999
- American Society of Mechanical Engineers: International Design Contest 2004 (5th Place), Region VIII Design Contest Winner 2004
- Glen Struble Memorial Scholar
- Student Alumni Association Council of Directors

INTERNATIONAL EXPERIENCE

- CENTRAL AMERICA: Five weeks volunteering with Engineers Without Borders (2007)
- GERMANY: Three-month academic program (2005)
- TUNISIA: Nine-month academic program (2004/5)
- EGYPT: Three weeks abroad (2000)
- GERMANY: One month academic exchange (1998)
- MOROCCO, BELGIUM, UNITED KINGDOM: five weeks abroad (1998)
- JAPAN: Two week academic exchange (1997)
- EUROPE: Five weeks abroad (1994)

EXTRACURRICULAR ACTIVITIES & HOBBIES

- Oregon State Cycling Club
- Chehalem Symphony at George Fox University
- Oregon State Symphony
- Backpacking and hiking
- Flying and aviation
- Mortarboard – past Communications Chair
- Tunisia Alumni Society
- SCUBA diving
- Fly fishing
- Oregon State International Programs Office ambassador