

JASON ERNST

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EDUCATION

- Fall 2009 – 2012 **Doctor of Philosophy, Computer Science Program**
University of Guelph, Guelph ON, Canada
Specialization: Distributed Systems (Wireless Communications)
Advisor: Dr. Nidal Nasser AVG: 84.8% (A)
- 2007 – 2009 **Master of Science: Applied Computing**
University of Guelph, Guelph ON, Canada
Specialization: Distributed Systems (Wireless Mesh Networks)
Advisors: Dr. Mieso Denko & Dr. Hongbing Fan AVG: 85.2% (A)
- 2003-2007 **Honours Bachelor of Science Program**
Wilfrid Laurier University, Waterloo ON, Canada
Major: Computer Science Minor: Physics GPA: 7.28 (B-)

WORK EXPERIENCE

- 2009 – 2010 **Teaching Assistant**, University of Guelph, Guelph ON, Canada
CIS2030, CIS2500
Technologies: m68k assembly, C programming, XHTML, CSS,
Responsibilities:
- Lead labs three times a week and provide assistance, leadership and constructive feedback to students on assignments, labs and tests
 - Check and respond to the teaching assistant email regularly
 - Troubleshoot equipment problems, weekly lab preparation
 - Maintain grade records, publish updates to website weekly
- 2008 – 2009 **Web Developer**, Conestoga College, Kitchener ON, Canada
Technologies: JSP, PHP, SQL, SSH, JavaScript, XHTML, CSS, Flash, Photoshop, Dreamweaver, MS Office, MS Visio (for UML)
Responsibilities:
- Update, create and design pages, databases and applications
 - Attend regular web committee meetings
 - Consult with faculty and administration within the College on designs, content and updates
 - Set up / train faculty and administration on various software
 - Interview students for junior web development positions
 - Assign work to student web developers
 - Fill in for webmaster on holidays and assume full responsibility of the website

WORK EXPERIENCE (CONTINUED)

- 2007 – Present **Research Assistant**, University of Guelph, Guelph ON, Canada
Technologies: NS2, NS3, C/C++, Java, XHTML, CSS, Javascript, Dreamweaver, Unix / Linux
Responsibilities:
- Design and implement wired and wireless network simulations using custom and industry standard simulation tools
 - Design, create and administer websites for research groups, conferences, seminars and workshops
 - Present research papers, original research and results at regular seminar series for PERWIN research group
- 2007 – 2008 **Teaching Assistant**, Wilfrid Laurier University, ON, Canada
Technologies: C/C++, OpenGL
Responsibilities:
- Evaluate, assign grades and provide meaningful feedback to students taking a 4th year computer graphics course

RELEVANT COURSE WORK

Advanced Database Systems	Introduction to Compiling
Algorithm Design and Analysis	Introduction to Scientific Computing
Artificial Intelligence	Introduction to Programming
Computer Networks (G & UG)	Microprocessor I
Database I	Mobile and Wireless Networks
Data Structures I and II	Object-Oriented Programming
Discrete Optimization	Operating Systems
Distributed Systems	Scientific Computation
Ethics and Professional Practice	Science in the Modern World
Experimental Design & Analysis	Software Engineering
Foundations of Computing	Soft Computing
File Structures & Processing	System Performance Evaluation
Internet Computing	Technical Communication & Research Methods
Introductory Methods	Windows Application Programming

VOLUNTEER EXPERIENCE

- 2009 – Present **Chair**, ACM Guelph Student Chapter, Guelph, ON
- 2009 – Present **Webmaster, Publicity Co-Chair**, NGWMN, Vienna, Austria
- 2009 – Present **Webmaster, Co-ordinator**, PERWIN, University of Guelph
- 2008 – 2009 **Web Developer**, Civics Education Network, Toronto ON, Canada
- 2007 – 2008 **Foot Patrol**, Wilfrid Laurier University, Waterloo ON, Canada

REFERENCES AVAILABLE UPON REQUEST