

Karl E. Persson, Ph.D.

CONTACT INFORMATION

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SUMMARY

Driven business leader and IT professional with extensive academic credentials. Ability to 'bridge the gap' between business strategy and technology. Proven track record as an Information Technology director and Information Systems Architect with expertise in design and implementation of cost-effective business and technology solutions. Dedicated project leader and Certified Six Sigma Black Belt with process improvement and quality experience. Analytical problem solving and logical reasoning prowess that, together with superior technical skills, business acumen, strategic vision, exceptional interpersonal communication skills, and leadership abilities, have resulted in a proven track record of success that have lead to significant and consistent revenue growth.

ACCOMPLISHMENTS

Professional

- Responsible for increasing productivity by identifying work flow waste through value-stream mapping and instituting improved business processes that have eliminated paperwork, automated redundant tasks, unified CRM/ERP systems, and simplified publishing using a customized Content Management System.
- Developed two major revisions of PHP/MySQL/XML-based hotel and airline reservation e-commerce system, single-handedly between 2002 and 2005 and as lead architect from 2006, that generates 90% of the company's annual revenue.
- Planned, designed, and implemented Linux server virtualization, on the Xen Enterprise platform using redundant physical servers and networking devices, which resulted in over \$100,000 in Total Cost of Ownership (TCO) savings per year.
- Managed internal developers and external contractors, and lead design and development on multiple web development projects; two major web site redesign and Joomla CMS integration efforts, Sugar CRM system customization and implementation, customized e-mail marketing programs, and hotel and airline reservation e-commerce system improvements.
- Contributed as a volunteer examiner of 2008 Malcolm Baldrige Criteria for Performance Excellence applicant for Kentucky Center for Performance Excellence (KYCPE)
- Utilized extensive expertise in Search Engine Optimization (SEO) and Search Engine Marketing (SEM) to achieve top-tier organic search engine positioning for keyword terms specific to the Caribbean all-inclusive travel market.
- Responsible for installation, configuration, security, and administration of over 50 physical and virtual Linux and Windows servers running Apache, MySQL, Bind DNS, Scalix Mail, Zenoss, Xen Enterprise, Openfiler, and Samba.

Academic

- Published research papers on Bluetooth Wireless Personal Area Networking in prestigious technical journals and several conference proceedings.
- Served as expert reviewer in single-blind peer review process for Elsevier Journal for Informational Sciences.
- Conducted Ph.D. research on Wireless Personal Area Network formation, routing, and security; developed robust algorithms to solve research problems and performed simulations for validation.
- Co-taught *CS215 Intro to Program Design, Abstraction, and Problem Solving*, an undergraduate software engineering course; shared responsibility for exams, homework assignments, grades, and held recitation lectures.

EDUCATION AND CERTIFICATION	<p>University of Kentucky, Lexington, Kentucky USA <i>Department of Computer Science</i> Ph.D., Computer Science, May 2009</p> <ul style="list-style-type: none"> • Dissertation Topic: “A Protocol Suite for Wireless Personal Area Networks” • Advisor: D. Manivannan <p>Cert., Business Administration, April 2007 M.S., Computer Science, August 2005 B.S., Computer Science, May 2001</p>
	<p>American Society for Quality (ASQ) Certified Six Sigma Black Belt #6878, March 2008 Certified Six Sigma Green Belt #1048, June 2007</p>
PROFESSIONAL EXPERIENCE	<p>Caribbean Tours and Cruises, Lexington, Kentucky USA <i>Director of Technology</i> January, 2006 - present <i>Network Administrator and Software Engineer</i> January, 2002 - December, 2005</p>
	<p>University of Kentucky Athletics Association, Lexington, Kentucky USA <i>Assistant to the Director of Computing Services</i> January, 2000 - May, 2001</p>
JOURNAL PUBLICATIONS	<p>Persson, K.E., D. Manivannan, and M. Singhal. “Bluetooth Scatternet Formation: Criteria, Models and Classification”, <i>Ad Hoc Networks</i>, Volume 3, Issue 6, November 2005, pp. 777-794, Elsevier.</p> <p>Persson, K., D. Manivannan, and M. Singhal “A fault-tolerant distributed formation protocol for bluetooth scatternets”, <i>International Journal of Pervasive Computing and Communications</i>, Volume 2, Issue 2, June 2006, pp. 165-176</p>
MEMBERSHIPS	<ul style="list-style-type: none"> • Association for Computing Machinery (ACM) • ACM SIGMOBILE • Institute of Electrical and Electronics Engineers (IEEE) • IEEE Computer Society • American Society for Quality (ASQ)
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Languages: C/C++, PHP, Perl, XML, SQL, XHTML, Javascript, CSS, Tcl, L^AT_EX. • Applications: ns2, Eclipse, Subversion, Apache, Joomla CMS, Sugar CRM, MySQL, Microsoft Active Directory, MS Visio, Scalix, Zenoss, Xen Enterprise Virtualization, Openfiler SAN/NAS • Networking: Nortel switches and routers, Cisco PIX firewalls • Operating Systems: Unix/Linux; Debian, Ubuntu, Redhat, Windows, Solaris
OTHER	<ul style="list-style-type: none"> • Fluent in English and Swedish • Work authorization in United States and European Union