

Riad Lemhachheche

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EDUCATION

Master of Science - Information Systems Engineering, Minor in Business Administration

Oregon State University, Corvallis, OR, USA

May 2006

Department of Industrial and Manufacturing Engineering

Emphasis: Information Systems, Wireless and Mobile Networks, Ubiquitous Computing, Human-Computer Interaction, New Media Communications, Consumer Behavior, Information Policy.

Research topic: "Design of User-Sensitive Ubiquitous Computing Environment". Case study on the interactional aspects (Privacy, Security, Usability, Law, Social Norms) of large scale Wi-Fi deployments and associated location-based services

Conduct multidisciplinary research among the departments of Industrial Engineering, Computer Science, Marketing and New Media Communications. Topics include context-awareness, privacy, law & ethics, user control and information management

Master of Science - Electrical Engineering, Telecom and Computer Science

CPE Lyon, Villeurbanne, FRANCE

Sept 2003

Diplôme d'Ingénieur en Electronique, Télécommunications et Informatique

European Master of Science from a French accredited "Grande Ecole." Major in Electrical and Computer Engineering. Minor in Networks and Telecommunications. Spent final year in the exchange program at Oregon State University Department of Electrical & Computer Engineering

RESEARCH AND TEACHING EXPERIENCE

Graduate Research Assistant, Industrial and Manufacturing Engineering, Oregon State University

Deployment of Campus Wireless Environment Infrastructures

2004-2005

Designed a guide for campus IT professionals in collaboration with Intel Corporation

Authored Management, Applications and Blueprints chapters. Co-authored Campus Wireless Environment Overview and Security chapters. Collected documentation from universities worldwide on requirements of campus wireless network deployments. Designed and administered survey targeted at campus network administrators.

Lab Instructor and Grader, Industrial and Manufacturing Engineering, Oregon State University

Bar Codes and Automatic Data Capture Class

2004-2005

Designed and taught laboratory classes on RFID, printing technology, wireless data capture, and 1D, 2D barcode and associated scanners.

Graduate Research Assistant, Computer Science, Oregon State University

Active Learning

2003-2004

Designed laboratory sessions for introductory class in computer science. Demonstrated embedded systems, operating systems and networking principles using Lego RCX programmable robots

RESEARCH & ACADEMIC PROJECTS

Publications

Peer-reviewed Publications

- Methodology for the Deployment of Effective Campus Wireless Environment Infrastructures. Riad Lemhachheche, David Porter, Thanit Puthongsiriporn, In *Proceedings of the 14th Industrial Engineering Research Conference, Atlanta (IERC'05)*, 2005
- Requirements for the Design of Collaborative Applications, Riad Lemhachheche, David Porter, Jon Herlocker. In *Extended Proceedings of the European Conference on Computer Supported Collaborative Work (ECSCW'05)*, 2005 (Poster)

Publications in progress

- Ubiquitous Computing and the Limitations of Wireless Networks, In Progress, 2006 (Journal paper)

White Paper

- Campus Wireless Deployment Guide*, David Porter, Thanit Puthongsiriporn, Bill Layton, Juan Rivero, Riad Lemhachheche, Oregon State University and Intel Corporation Business Strategies and Solutions, White paper, 104 pages, 2005

Research Reports

- Efficient Handoff Techniques for Cellular IP Wireless Networks*, Riad Lemhachheche, Oregon State University. 2003
- Computer's Future: Optical, Quantum and Chemical aspects*, Riad Lemhachheche, CPE Lyon, 2000
- Broadcast Technologies for Motion Pictures*, Riad Lemhachheche, CPE Lyon, 1999
- Architecture of GSM networks*, Riad Lemhachheche, Sebastien Cuaz-Landru. CPE Lyon, 1998

Talks, Presentations and Workshops

- Personal Connectivity Management in Wireless Networking, Riad Lemhachheche, *IT@Home: Unraveling Complexities of Networked Devices in the Home Workshop, Conference on Human Factors in Computing Systems, Montreal, Canada (CHI 2006)*, 2006
- Public Policy Impact on Interaction Design in Networked Environments, Riad Lemhachheche, *SIGCHI Public Policy Workshop, Conference on Human Factors in Computing Systems, Montreal, Canada (CHI 2006)*, 2006
- Design for Appropriation of Ubiquity in Information Systems, Riad Lemhachheche, *Supporting Appropriation Work: Approaches for the 'reflective' user Workshop, European Conference on Computer Supported Collaborative Work (ECSCW'05)*, 2005
- Active Learning with Lego Robots in Computer Science Orientation, Michael J Quinn, Riad Lemhachheche, *Hewlett Foundation Spring Forum Invitation, Oregon State University*, 2003

Project Work

Information Management and System Project Work

2002-2005

- Conducted usability testing on the design of a online scheduling system for the OSU Writing and Learning Center
- Conducted research on privacy and legal issues in Google Gmail archiving features
- Designed Freedom Pass, a public transportation fare collection system using automatic data capture and wireless networks
- Reviewed smartphones technology in the context of content delivery and personal information management
- Researched wireless security in regard to WEP protocol weaknesses and vulnerabilities
- Designed a java-based streaming video client/server using RTSP and RTP protocol
- Reviewed Voice over IP technology

Computer Science & Electronics Project Work:

1999-2001

- Implemented algorithms of network flow optimization
- Developed a communications software with instant messaging capabilities

PROFESSIONAL EXPERIENCE

Writer and Online Editor

The Daily Barometer, Corvallis, OR, USA

June 2004 - Present

Specialize in informing campus community on technological issues as a staff writer
Designed the online layout (Jan - Aug 2005)
Published the newspaper's daily online edition (Jan - Aug 2005)

Tutor

Oregon State University, Athletic Department, Corvallis, OR USA

Sept 2004 - Present

Tutor student-athletes in information systems, business administration, web page design, mathematics and computer science

Oregon State University, Department of Foreign Languages, Corvallis, OR USA

Jan 2005 - June 2005

Taught first, second and fourth year French conversation classes

Manager of Information Systems

United World Telecom, Delray Beach, FL, USA

Aug 2001-July 2002

Redesigned and maintained UWT corporate website
Developed an administrative intranet and web-based services for customers
Provided technical support to customers and agents on system features and online services
Designed international redirect service of US toll-free numbers and set up International Toll Free Services
Conducted market research on designing and configuring an international Voice over IP network.

Vice-President and Project Manager

Synergie, Junior Enterprise of CPE Lyon, Villeurbanne, France

Jan 2000-June 2001

Supervised 2 to 6 developers on web-based portal projects, image processing software development and circuit board design
Hired, advised, trained and motivated students employees.

PROFESSIONAL SOCIETIES AND ACTIVITIES

Professional Activities

Reviewer

Reviewed full papers for the Conference on Designing for User Experience 2005 (DUX 2005)
Reviewed work-in-progress papers for the Conference on Human Factors in Computing Systems (CHI 2006)

Student Volunteer

Volunteered at the conference on Human Factors in Computing Systems, Montreal, Canada (CHI 2006)
Volunteered at the International Conference on Ubiquitous Computing, Tokyo, Japan (UBICOMP 2005)
Volunteered at the conference on Human Factors in Computing Systems, Portland, USA (CHI 2005)
Volunteered at the International Conference on Ubiquitous Computing, Nottingham, UK (UBICOMP 2004)

Professional Societies

Member

Association of Computer Machinery (ACM), Special Interest Group on Computer-Human Interaction (SIGCHI)
Electronic Frontier Foundation (EFF)
Information Architecture Institute (AIIA)

SCHOLARSHIPS, GRANTS

Research & Teaching

Graduate Teaching Assistantship - OSU Department of Industrial and Manufacturing Engineering	2004-2005
Graduate Research Assistantship - OSU Department of Industrial and Manufacturing Engineering	2004-2005
One-year research stipend, part of the 2004 Intel Corp - OUS grant on Broadband Wireless Technology	
Graduate Research Assistantship - OSU Department of Computer Science	2003-2004
One-year research stipend, part of the William and Flora Hewlett Foundation project on Integrated Learning Platform to Improve Engineering Recruitment and Retention	

Awards

Travel Grant - Ubicomp 2005	2005
Travel stipend to attend and volunteer at Ubicomp 2005 in Tokyo, Japan	
French National Academic Scholarship for Study Abroad - CNOUS	2002-2003
One-year academic scholarship for academic promise and financial need to study abroad	
Travel Grant for Study and Research Abroad - Conseil Régional Rhone-Alpes, France	2002-2003
One-year grant for top-ranked candidates for study and research abroad	
Tuition Remission Program - Oregon University System	2002-2003
Tuition fellowship for top ranked incoming international students in Oregon public higher education institutions	
State Grant for Education Advancement - Conseil Général de la Moselle, France	1999
One time grant for academic advancement and promise of excellence	
French National Academic Scholarship - CNOUS	1997-2001
One-year renewable academic scholarship for academic promise and financial need	

OTHER ACTIVITIES

Leadership Positions and Activities

Ultimate Disc Club	Oregon State University
Team Member and 2005 College Nationals Championships Organizational Committee staff.	Sept 2004 - June 2005
European Student Association	Oregon State University
Webmaster & Committee Member	Sept 2002 - June 2004
Téléthon: le relais de l'espoir	CPE Lyon
Webmaster	1999 - 2000
Student Council	CPE Lyon
Elected Representative of the class (120 students) to the Student Council	Sept 1999 - July 2000

SKILLS

Computer & Language Proficiency

Languages

Fluent in English and French (native), Intermediate level in German

Operating Systems

Unix, Windows 98 and 2000 (administration), Cisco IOS, Windows Mobile

High-Level Programming, Web & Scripting Languages:

C/C++, SQL, Java, Visual Basic, HTML, CSS, PHP, ASP, XML, Intel x86 and MCS 8051 assembly, shell-script

Multimedia Tools

iMovie, Final Cut Pro

Network & Telecommunication

TCP/IP, Voice over IP, Voice switching and routing, Cisco routers and voice gateways, OPNet Modeler

Wireless and Mobile Networking

802.11 protocol, security (WEP, WPA, 802.11x), GSM, Mobile TV, wireless site survey