

Honorine MUJYAMBERE

EDUCATION:

University of Ferrara (UNIFE), PhD of Eng., Telecommunications Engineering; Thesis title: "Routing & Retransmission strategies in multicast communications for wireless networks" **Expected: 03/11**

Related courses: Digital Electronics, Telecommunication Networks & Internet, Multimedia Communications, Computer Networks, Wireless Systems, DSP & Lab, Operating Systems.

University of Ferrara (UNIFE), MS, Environmental & Regional Policies of Sustainability and Local Development, 03/09.

Related Courses: Geographic Information Systems (GIS), Landscape planning and design, Evaluation and analysis techniques (SEA-Cost/Benefit-SWOT), Community Planning, Cooperation building techniques, Design and management of development & cooperation projects.

Kigali Institute of Science & Technology (KIST), BS, Electronics & Telecom Engineering, 12/ 06.

Related Courses: Microwave & Radar Engineering, Satellite & Mobile Communications, Antenna & Wave Propagation, Digital Signal Processing, Pulse and Switching Circuits & Digital Telecommunications.

WORK EXPERIENCE:

- **Telecommunication lab technician, University of Ferrara, Eng. Dept, 03/10 – 06/10**

Cisco router programming, analysis and testing connections on Cisco routers, traffic analysis with libpcap libraries, analysis of traffic with tcpdump, Texas TMS430 DSP programming

- **Data Capture Supervisor , Rwanda National Identity Card (NID), 10/07 – 03/08**

Supervised the data capture technicians during the project, helped to solve technical problems encountered on the field, conducted weekly data backup.

- **Internship, Gasabo Districts, Rwanda 05/06 – 07/06**

Training people in computer skills, network and hardware troubleshooting.

- **Internship, Rwanda Information Technology Authority (RITA), 11/06 -01/07**

Computer hardware assembling, OS installations, DOS Commands, Troubleshooting concepts, Introduction to computer network, Protocols (TCP/IP), IP Addressing & Subnets, Network devices, IP Routing, Cable clipping, Workgroup configurations etc.

TECHNICAL EXPERTISE:

Windows XP, Vista, 7. MS Office (Word, Excel, Power Point, Publisher, Project, Outlook, Access etc.), Matlab 7.1, Circuit marker, C programming, Java programming.

Professional: Problem solving & decision making skills, ability to quickly adapt to new environments.

PROJECTS:

- **Advanced Network Architectures:** To improve the routing strategies in Wireless Multicast Communications

Routing protocols & Retransmission Strategies in Multichannel Multicast, Routing Strategies in Multicast Wireless Communications, Multicast Routing Algorithms & Trees.

- **A Client/Server architecture for intelligibility tests, November 2009- June 2010:**

Contributed to the design and implementation of an architecture that helps to make intelligibility tests in primary schools. Sponsored by the Acoustic department of University of Ferrara, this implemented design enables multiple users while other architectures were only single user. The new architecture can also be implemented in non acoustic environment.

- **The project for the Guaraqueçaba region, Catholic Pontificate University of Parana, Curitiba, Brazil, 19/08-17/09/08**

Developed projects that stimulate local economic development, and are socially and environmentally sustainable, while still preserving the local natural and cultural heritage resources.

- **The project work in Valparaiso , Federico Santa Maria Technical University of Valparaiso, Chile, 29/10 – 17/10/08**

Suggested an approach and policy proposals to strengthen the undergraduates' final projects by providing a planning context in which their individual architectural projects would become the physical manifestations of a larger revitalization strategy.

- **Undergraduate Thesis: "Design and implementation of a low cost pasteurizer". 10/2006**

Designed and implemented a low cost pasteurizer which at 62⁰C, the temperature sensor unity gives the signal to the timer unity to start the timer. The temperature and timer units are controlled by the control unity which controls the heating and cooling of the water heater.

PUBLICATIONS:

- Launching of GSM, 3G network in Rwanda. Softcom 2009
- A Client/Server architecture for intelligibility tests. Softcom 2010

CERTIFICATES:

- Networking courses in ICT-KIST: Planning and configuration of LAN, Configuration of windows server, Router configuration. **09/06 - 02/07**
- Commissioner in KIWSA (KIST Women Student Association), **01/06 – 12/06**
- Vice-President of Youth and ICTs_Rwanda (YIR) Association, **09/06 – 02/08**

LANGUAGES SPOKEN:

- English: Very good
- Kinyarwanda: Native
- French: Fluent
- Swahili: Good
- Italian: Very Good

REFERENCES: Available upon request