

UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY

Lecture
MOBILE COMMUNICATION, THE FUTURE OF TELECOMMUNICATIONS

Date and Time: 21th June 2012 (Thursday), 10:00 AM
Venue: J213, Silver Jubilee Building, University of Macau

André Lynch,
Asst. Lecturer, Faculty of Pure & Applied Sciences
The University of the West Indies, Cave Hill Campus, Barbados

Lecture Description:

The Lecture will provide a comprehensive overview of the key scientific and technological concepts employed by the mobile communication industry. It will also underscore the critical social and economic role mobile communication plays in the era of globalization. The aim is to familiarize the audience with past communication techniques, up-to-date telecommunication knowledge, threats, and future trends of mobile communication. The lecture will enable the audience to understand the intricate linkages between mobile communication, social networking and the global economy and as such, spark their interest in telecommunications.

Lecture Content:

1. Overview of University of the West Indies & areas of study in the faculty
2. History of communication (primitive, middle ages, age of discovery)
3. Early pioneers of modern telecommunications
4. Contemporary telecommunication techniques
5. Cellular telephony and wireless technology (1G, 2G, 3G, 3GPP/LTE, 4G, GSM, UMTS, HSPA, LTW, Wi-Fi, WiMAX, Bluetooth etc.)
6. Mobile applications, services, and software
7. Future trends and emerging technologies
8. Telecommunications industry (revenue, changing trends, liberalization)

Learning Outcomes:

At the end of the lecture the audience will be able to:

1. Articulate the essential and contemporary scientific terminologies
2. Compare major legacy, current, and emerging mobile technologies
3. Formulate views on current and future market and technology trends
4. Possess a greater understanding of the University of the West Indies

The lecture will be delivered as a multimedia poer-point presentation. It will be interactive and the audience will be encourages to engage in discussion.

The lectures are open to the public

For enquiry:

State Key Laboratory of Analog and Mixed-Signal VLSI

Tel. (853) 8397-8796

http://www.fst.umac.mo/en/lab/ans_vlsi/index.html



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Nationality: Barbadian • Date of Birth: 14/03/1982

OBJECTIVE

I am seeking a job where my experience in implementing and maintaining data networks and providing adult education, supported by innovative staff training programs, will enhance my technical and managerial skills and result in a more productive and profitable organization.

EDUCATION

KINGSTON UNIVERSITY - Kingston-upon-Thames, UK Sept 2007 – Nov 2008

- M.Sc. (with Commendation) Networking & Data Communications

BIMAP - Bridgetown, Barbados Apr – Oct 2005

- Network+ Certified – Computing Technology Industry Association (CompTIA)

UNIVERSITY OF THE WEST INDIES - Cave Hill, Barbados Sept 2000 – May 2003

- B.Sc. (Hons) Computer Science & Electronics

WORK EXPERIENCE

ASSISTANT LECTURER - University of the West Indies, Barbados Jan 2009 – Present

- Instructed undergraduate electronics course (e.g. microcontrollers, microprocessors, discrete devices, circuit analysis, and mobile communication).
- Organized and plan lectures, exercises and laboratory experiments.
- Supervised laboratory sessions, analyzed and resolved problems students encountered.
- Graded exams and exercises, and advised students.

INSTRUCTOR - BIMAP, Barbados April – July 2009

- Instructed CWNA (Certified Wireless Network Administrator) course.
- Prepared lectures and tutorial exercises for professional students.
- Organized and supervised wireless network laboratory sessions.

TEACHER - Ministry of Education, Barbados Apr 2005 – Aug 2007

- Set up and managed the school's small computer network.
- Instructed Information Technology, General Science and Physical Education.
- Planned and organized fieldtrips and sports events, and coached athletics and football teams.

NETWORK TECHNICIAN – Barbados Structural Cabling

Nov 2004 – Nov 2005

- Installed voice and data communication equipment for medium-size corporate clients.
- Maintained cabling system and network equipment.
- Provided quotations and purchased network equipment.
- Liaised with the customer's IT personnel regarding network issues and demands.

SERVICE OFFICER – Bank of Nova Scotia, Bridgetown, Barbados

Jun 2000 – Jul 2004

- Daily processed hundreds of transactions (e.g. deposits, withdrawals, money transfers) and handled hundreds of thousands of dollars.
- Obtained tens of referrals monthly, by marketing the bank's products (e.g. credit cards, fixed deposits, mortgage plans).
- Daily displayed profession communication skills, the ability to work under pressure and patience to deal with irate customers.

PROFESSIONAL SKILLS

- Proficient programmer in C++, Assembly language, PBasic, Python, Visual Studio, HTML.
- Working knowledge of Matlab, OPNET Modeler software and TCP/IP utilities.
- Highly proficient user of Microsoft Office Suite.
- Competent in written Spanish and improving skills in oral Spanish.
- Served as assistant team manager of a football academy and chaired at general meetings and press conferences.
- Regularly use great communication skills to liaise with coaches, sponsors and the media.
- Implemented a fund-raising program, which raised over \$3000 for a football academy.
- Created and maintained a database of information on a football academy's players.
- Designed and created club crests for several sports teams.

ACHIEVEMENTS

- Guest Lecturer: Institute Superior de Ciências Económicas e Empresarias (ISCEE) and Intercontinental University of Cape Verde (UNICA), Cape Verde (2012)
- M.Sc. thesis (Mobile WiMAX: A Broadband Solution for Rural UK) was presented at the Wireless World Research Forum Meeting 21 Conference (2008)
- Commonwealth Scholarship Commission's Scholarship to study in the UK (2007)
- Moore Paragon Award for Electronics :- University of the West Indies (2001)
- Recipient of the Ironman Award for best Cadet :- Barbados Cadet Corps (1998)

INTERESTS

I have played football at all levels in Barbados and at the university and semi-professional level in the UK. As a coach of youth teams I enjoy working with adolescents and aim to start my own football academy. Recent interests include Latin dance (e.g. zouk, kizomba, samba, passada) and I am currently learning Portuguese. Also, my desire is to travel the world to continue diversifying my knowledge of different peoples and cultures.

References available upon request

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