– CURRICULUM VITAE –

PERSONAL DETAILS

Name   **Mr Thavisak MANODHAM**

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Birth Date   05 May 1974
Nationality   Lao

EDUCATION

Tertiary

April 2004 – date   Ph.D of Information Technology – Information and Communication Engineering, The University of Electro-communication, Tokyo, Japan.

Selection of High Distinction and Distinction subjects:
- Wireless Network Architecture
- Advance Wireless Network Design
- Project (see below)

Project:
- Study on Seamless Global Network Technology. This is the project that study on the Roaming technology for the Wireless Network especially on Wi-Fi (IEEE 802.11) and Wi-Max (IEEE 802.16) standard and also reducing the latency time in handover process in order to support Real-Time service.

Special Interest Areas:
- Designing and implementing Computer Wireless Network with high efficiency.
- Network Security including encryption and authentication techniques.

April 2002 – 2004	Masters of Information Technology – Information System, The University of Electro-communication, Tokyo, Japan.

Selection of High Distinction and Distinction subjects:
- Information Security
- Computer Network Architecture I, II
- Information Network Design
- Project (see below)
- Advance Information Communication System
- Advance Topic in Network Architecture
- Advance Topic in Distributed Computing
- Software Engineering

Project:
- Study on Wireless Network Technology.   This is the project that study on the Handover process in Wireless LAN Technology especially on 802.11b (Wi-Fi) standard technology. We improve network efficiency in terms of reducing the latency time in handover process by adds new Pre-Active Scan phase to omit both Detection phase and Search phase. The new Scheme can reduce the Handover delay time on the way to support Real-Time service on WLAN.

Special Interest Areas:
- Designing and implementing Wireless Network with high efficiency.
- Network Security including encryption and authentication techniques.
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Jun 1992 – April 1996	Bachelor of Electrical Engineering – Communication and Computer (with Distinction), KingMongkut's Institute of Technology North Bangkok, Bangkok, Thailand.

Credits and above in *all* subjects.
Course GPA – 3.01 (scale 0-4, 4 highest)

Team Project:
- Study on Personal Handy-phone System (PHS). This Project study on PHS mobile phone system in Japan. We study the advantage and disadvantage of PHS, then adaptive to use in Thailand. In this project, we created PHS mobile phone by using Digital Signal Processor Starter kit (Model TMS320C26) and programming in Assembly.

Other Qualifications/Skills

<u>Foreign Language Skills</u>
- Fluent in English (both technical and day-to-day aspects)
- Fluent in Thai (both technical and day-to-day aspects)
- Speaking basic in Japanese (day-to-day aspects)

<u>Typing skills</u>
- Approximately 40 words per minute.

<u>Interpersonal Skills</u>
- Be able to work well as a member of a team.
- Able to work under stress.

Referred Conferences and Workshops

January 2006	T.Manodham, L.Loyola, G.Atoche, M.Hayasaka and T.Miki, "A Seamless Handoff Scheme with new AP Module for Wireless LANs Support VoIP", Proceedings of the SAINT2006 Conference, January 2006.
October 2005	T.Manodham, L.Loyola, G.Atoche, M.Hayasaka and T.Miki, "A SMOOTH HANDOFF SCHEME FOR REAL-TIME SERVICES IN WIRELESS LANS", Proceedings of the GMC'2005 Conference, October 2005.
October 2005	G.Atoche, M.Hayasaka, S.Tomitsuka, T.Manodham and T.Miki, "Weighted Hop Priority Control Scheme for Multihop Wireless Ad Hoc Networks", Proceedings of the APCC2005 Conference, October 2005.
September 2005	T.Manodham, L.Loyola, G.Atoche, M.Hayasaka and T.Miki, "A Novel Handover Scheme for Reducing Latency in WLANs", Proceedings of the VTC2005-Fall Conference, September 2005.
September 2004	T.Manodham, M.Hayasaka, S.Sugawara, M.Terada and T.Miki, "Novel Handover Scheme for Wireless LANs", Proceedings of the IWMST2004 Conference, September 2004.
April 2004	T.Manodham, L.Loyola and T.Miki, "Pre-Active Scan Phase for the Latency Handover Time Issue in IEEE 802.11 Wireless LANs", Poster in the ICBN'04 Conference, April 2004.
March 2004	T.Manodham, M.Terada and T.Miki, "Techniques to Reduce Handover Time on Wireless LANs", Proceedings of the IEICE General Conference, March 2004.

Awards/Achievements

2005   IEEE VTS Japan 2005 Young Researcher's Encouragement Award: An award given by the IEEE VTS Japan Chapter for the paper accepted in VTC 2005-Fall (September 2005)

2004   MONBUSHO Scholarship: An award given by the Japanese Government for continue study Ph.D of IT in the University of Electro-Communication, Tokyo, Japan (April 2004)

2001   MONBUSHO Scholarship: An award given by the Japanese Government for study Master of IT in the University of Electro-Communication, Tokyo, Japan (April 2001)

1996   Top and Honour awarded students: An award given by the KingMongkut's Institute of Technology North Bangkok (KMITNB), Bangkok, Thailand (April 1996)

1991   UNDP Scholarship: An award given by the Unite Nation Development Program for study Bachelor degrees in the KingMongkut's Institute of Technology North Bangkok, Bangkok, Thailand (November 1991)

PROFESSIONAL EXPERIENCE

2000 - 2001   Worked as a supervisor of IT Project Planning Term at the Enterprise of Telecommunication Lao (ETL).
- Design Internet Service Provider (ISP) systems for ETL
- Design intranet network with central Database inside ETL
- Training to IT staffs inside ETL "How to design and implement computer network system" in advance.

1998 - 2000   Worked as a supervisor of Internet Service Provider (ISP) systems at the Lao Telecommunication Company (LTC).
- Implement a Internet Service Provider (ISP) systems
- Design and implement sub-network for ISP to provide Internet service in other province in Laos
- Implement all routers, Access server and also Ethernet Switch (All equipments are CISCO product)
- Implement Firewall server (Firewall One), Web server (Apache and Netscape Enterprise server), Mail server (Sendmail server) and Radius server (Radius Livingston)
- Design and implement LTC Webpage to support online service
- Implemented CGI programming (using PERL 6.0)
- Training LTC staffs how to use Internet in advance

1997 - 1998   Worked as a Switching Engineering of PSTN systems at the Lao Telecommunication Company (LTC).
- Implement Telephone switching systems (FETEX-150)

- Create a Database program for Customer service by using FOXPRO and Dbase IV

SUMMARY OF PROFESSIONAL SKILLS

Software application skills
Competent using:
- MS Word
- MS Power Point
- Netscape Navigator/Internet Explorer/Opera
- Image processing software (PhotoShop, VISIO)

Familiar with:
- MS Excel, MS Access
- Animation constructing software (IMAGE Ready. GIF animation)

Internet/WWW applications
- Extensive HTML and CGI programming using Perl
- Firewall server implementation (Firewall One, Sygate)
- Web server implementation (Apache server, Netscape Enterprise Server)
- Proxy server implementation (Netscape, Squid, Winproxy)
- Mail server implementation (Sendmail, Workgroupmail)
- Web design and implementation using Macromedia's products, such as Dreamweaver, Flash
- Client-server architectures: Unix/Linux, Windows
- Competent using web development/authoring software (Dreamweaver, Flash from Macromedia and Photoshop from Adobe)

IT Security
- Attack and defenses strategies in internet technologies
- Extensive Network security (Manage IP, using Firewalls, Proxy, and Radius server)
- WebPage security using CGI

Languages
- MATLAB, the Language of Technical Computing
- OPNET, Optimum Network Performance
- Extensive C, C++ programming in Unix/Linux environment
- Extensive Visual C++ programming in Windows

- Extensive Perl programming for web development on NT and Unix/Linux platforms
- Extensive HTML programming
- JavaScript

Personal Computers
- Hardware/software installation, upgrading, configuration, interface with other equipment and fine-tuning
- Application software such as MS Office, Utilities tool and image processing software

Operating Systems
- Competent in working in Unix/Linux, DOS, Windows XP/2000/NT/98/95 platforms in administrator level.
- Competent in working in CISCO OS on Router and Access Server

EXTRA CURRICULAR ACTIVITIES
- All kind of sport
- Reading Magazine and Newspaper
- Listening to music
- Surfing the Internet

MEMBERSHIP

2002 – date — IEEE (Institute of Electrical and Electronics Engineers) Communication Society

2000 – date — CISCO CCO Society

CAREER GOAL

Work as a Network System (Wireless Network and Internet Network specialist) Specialist on a broad range of projects and products both nationally and internationally

REFEREES

Prof. MIKI Tetsuya	Asst.Prof.Dr. CHATRATANA Somchai	Mrs. MANODHAM Chanthanom
Department of Information and Communication Engineering, The University of Electro-Communications, Chofu-shi, Tokyo 182-8585, Japan.	Dean, Faculty of Engineering. King Mongkut's Institute of Technology North Bangkok Bangkok 10800, Thailand.	Director of Cabinet Ministry of Health Vientiane, Lao P.D.R Tel: (856 21) 222627
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