CURRICULUM VITAE

Name: Boonying Charoen

Sex: Male

Place of Birth: Chanthaburi, Thailand

Date of Birth: July 22nd, 1964

Nationality: Thai

Religion: Buddhism

Marital Status: Married with Nawarat Wara-aswapati DDS., D.MSc.

Position: Lecturer

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Education: 1986 B. Eng. Khon Kaen University, Thailand
1991 Ph.D. University of Canterbury, New Zealand

Employment History and Position Held:

1986 – Present Lecturer, Department of Electrical Engineering, Khon Kaen University

Administrative Experience:

1992 – 1993 and 1996 – 1997 Associate Head, Department of Electrical Engineering, Khon Kaen University

1995 – 1997 Head, Biomedical Engineering Program, Khon Kaen University

1997 – Present Chairman, Graduate Study, Department of Electrical Engineering, Khon Kaen University

1999 Acting Head, Department of Electrical Engineering, Khon Kaen University

Student Supervision:

1992 – Present Supervised :

* 68 undergraduate students working on their electrical engineering projects
* 5 graduate students working on their M. Eng. Theses

Teaching Experiences:

14 years teaching in the following fields:

- Electric Circuits and Electric Circuit Theory
- Electronic Devices, Circuits, and Applications
- Electrical Instrumentation and Measurement
- Transmission Lines and Wave Propagation
- Advanced Engineering Mathematics
- Linear and Nonlinear Circuits
- Computer Programming for Engineers
- Hardware Description Language
- Digital Circuits Design
- Digital Integrated Circuit Design and Technology

Publications:

1. K. Tunmitr, W. Prasertcharoensuk, and **B. Charoen**, "A Low Cost Data-Logger", in Proc. 4th Appropriate Technologies for Rural Area Conference, July 1987 (in Thai).

2. L.N.M. Edward and **B. Charoen**, "On Improving the Edge Placement Accuracy and Waveform Quality in USIC Testers", in Proc. 9th Australian Microelectronic Conference, pp.333-338, July 1990.

3. **B. Charoen** and L.N.M. Edward, "Adaptive Enhancement of Timing Accuracy and Waveform Quality in High Performance IC Testers", IEEE Trans. On Circuits and Systems, Vol. 39, No. 2, pp.139-151, February 1991.

4. A. Waisantier, M. Jitcharoenthum, and **B. Charoen**, "Rodent Locomotion Monitoring Equipment", KKU Engineering Journal, Vol.23, No.1, 1996 (in Thai).

5. **B. Charoen**, N. Sirijitjinda, P. Laosakul, T. Numnonda, and W. Premchaisawadi, "An FPGA Design of a Control Unit for an Automatic Syringe Pump", in Proc. 2nd Annual National Symposium on Computational Science and Engineering, pp. 207-214, March 1998.

6. **B. Charoen**, K. Nan-Udon, T. Sarapol, T. Numnonda, and W. Premchaisawadi, "Development of an Integrated Circuit for Multi-Channel Portable Data-Logger", in Proc. 2nd Annual National Symposium on Computational Science and Engineering, pp. 215-224, March 1998.

7. S. Wasoontarajaroen, A. Thansandote, G. Gajda, D. Lecuyer, and **B. Charoen**, "A system for Calibration of Microwave Oven Leakage Survey Meters", in Proc. 21st Electrical Engineering Conference, November1998 (in Thai).

8. W. Sa-ngiumwibul and **B. Charoen**, "Defibrillator Tester", KKU Engineering Journal, Vol.26, No.3, 1999 (in Thai).

9. S. Pornnimitr, T. Numnonda, and **B. Charoen** “The Development of a Cluster Computer”, in Proc. Engineering in the New Millennium, January 2000 (in Thai).

Research Grant:

1987 National Research Council of Thailand (NRCT), to develop a low-cost data logger.
1993 National Research Council of Thailand (NRCT), to develop a control system for automatic syringe pumps.
1996 National Electronics and Computer Technology Center (NECTEC), to establish digital IC design courses at KKU.
1996 Office of Atomic Energy for Peace (OAEP), to carry out a feasibility study for the establishment of an EMC/EMI calibration facility.
1998 Office of Atomic Energy for Peace (OAEP), to carry out a survey of microwave oven leakage in Khon Kaen province area.
1999 National Research Council of Thailand (NRCT), to develop a semi-automatic system for the measurement of electronic devices V-I characteristics.
1999 Faculty of Engineering Khon Kaen University, to solve a unit commitment problem using parallel genetic algorithm

Research Interest:

* Design and Test of Digital Integrated Circuits
* Electronic Applications in Biomedical Engineering
* Electronic Interconnection and Packaging
* Electromagnetic Compatibility/Interference

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