# Mr. Akkarit Sangpetch

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## Education

**CARNEGIE MELLON UNIVERSITY**, Pittsburgh, PA

**Bachelor of Science in Computer Science**
dual B.S. in Electrical and Computer Engineering

**Graduation date:** May 2005
**Cumulative GPA:** 3.97/4.00

## Area of interests

Computer Networks, Computer Architecture, Computer Graphics

## Work Experience

**CARNEGIE MELLON UNIVERSITY**, Pittsburgh, PA

**AURA Enhanced Contextual Information Service** May - Aug 2004
Developing map information service and
location identifying software utilizing wi-fi signal strength for PDAs.

**Netgames Application Framework** May - July 2003
Java application framework for supporting on-line multiplayer game system

**Introductory Programming Course Assistant** Sep - Dec 2002

**Thai Scholar Orientation Program,** Wolfeboro, NH
Basic Computer Skills Teacher and Dorm Supervisor July -Aug 2002

## Academic Projects

**Senior Research Honor Thesis:**
"Visualizing robot behaviors with Self-Generated Storyboards", 2004-2005

**IP Multicast Routing implementation on IXP2400 network processor:**
Implemented IP multicast routing functionality on Intel IXP2400
network processor, Fall 2004

**MIPS347 Processor:**
Implemented MIPS superscalar pipelined processor with caches and branch prediction using Verilog hardware description language, Fall 2003.

**Compiler Design:**
A type-safe optimized compiler for C-style programming language, Fall 2003

## Computing Skills

**Programming Languages/Platform development**:
C/C++, Java (J2SE/J2ME/J2EE), ML, MIPS+x86 Assembly, PASCAL, Verilog, SQL, PHP, HTML, XML, eclipse
**Operating Systems**: GNU/Linux, Windows 3.1/95/98/ME/2000/NT/XP, MacOS, DOS
**Applications**: MATLAB, Maple, Mathematica, LaTeX, ModelSIM, Verilogger.

## Relevant Courses

| | |
|---|---|
| 15-354 Computational Discrete Mathematics | 15-399 Constructive Logic |
| 15-213 Introduction to Computer Systems | 15-451 Algorithm Design and Analysis |
| 15-411 Compiler Design | 15-496 Artificial Neural Networks |
| 15-462 Computer Graphics | 15-441 Computer Networks |
| 18-347 Introduction to Computer Architecture | 18-396 Signals and Systems |
| 18-450 Digital Wireless Communication | 18-544 Network Design and Evaluation |
| 18-730 Introduction to Computer Security | |

## Activities

Siam (Thai Student Org. at CMU) Co-Webmaster Fall 2003 - Fall 2004

## Awards/Honors

Royal Thai Government Scholarship to pursue Master degree in Computer Science/Engineering, 2000
Dean's List of School of Computer Science, Carnegie Mellon University,
Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, and Spring 2004
Bronze Medal, International Olympiads in Informatics, 1997, 1998