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### **Qualification Profile**

Expertise in Cluster and Grid Computing. Able to provide comprehensive Cluster Design and Measurement. Outstanding project and program leader; able to coordinate and direct all phases of project-based efforts while managing, motivating, and guiding teams.

### **Area of Expertise**

- Cluster & Grid Computing
- Parallel / Cluster File System
- High Availability (HA) Cluster
- Web Clustering
- Linux Server Management
- Open source development
- Networking and system policy
- Database Administration and Design
- Technical Specification Development
- Training Professional
- Team and Project Leadership

### **Technical Proficiencies**

Platform: Rocks Cluster, Linux(Redhat, CentOS, Ubuntu, Slackware, Suse, TLE),  
Unix(Solaris), Windows/9x/NT/2000/XP,Sun SPARC

Networking: TCP/IP, Ethernet, Cisco

Programming: PHP, shell script, HTML, C, JavaScript, ASP, Pascal, Delphi, Visual C++,  
Visual Basic, cgi/perl and python

Database: PostgreSQL, MySQL, Oracle and MS Access

### **Professional Experience**

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#### **Cluster Kit Co., Ltd. Managing Director**

**2007 – Present**

Responsible for both management and technical function. Build the Cluster & Grid computing market which is gaining the bigger share in this area in Thailand. Direct all employees and all operation for installation and service provision for Cluster & Grid computing infrastructure. Develop knowledge and skill of all team prepared to grow in future.

#### **Key Achievement**

- 2009 : Setup "ClusterKit Training Center". The center of opensource and Computer Cluster learning
- 2009 : Setting up a load-balancing cluster supported the "Digital Thailand" project at Geo-Informatics and Space Technology Development Agency (GISTDA)
- 2009 : Building a Tera-Scale Cluster at BIOTEC
- Building a lager Tera flop machine (200 nodes Cluster) at Thai National Grid Project
- Building a lager cluster on SUN platform and 2 years management of High Performance Computing Center at Research & Development institute, Ramkhamhaeng University.
- The First Microsoft HPC vendor in Thailand.
- Installation and setting up Web Cluster for web catalog supported remote sensing data. (The pilot project. Preparing for THEOS)
- Maintenance 7 nodes web cluster for famous radio channel virginradiothailand.com
- Create a more responsive and market-driven organization resulting 2 million bath in first year
- Developed and introduce new product & service for education industrial and government section

**Thai National Grid Project  
System Engineer****3/2006 – 6/2006**

Successfully manage and coordinate various projects including building a new office, PR about Grid technology, prepared annual conference.

**Key Achievement**

- Designed Certificate Program for manpower in grid computing
- Coordination for "Thailand Grid and Cluster Conference 2006" (TGCC2006)
- Provided proposal for Thaigrid Logo design
- Provided training course for deep technology

**Asia Pacific Science & Technology Facility (APSTF) Thailand  
Technical Specialist****2005 – 2006**

Provided technology consultancy and technology transfer for the High Performance Computing (HPC) conducts Applied Research into key technology for Massively Scalable Systems.

**Key Achievement**

- Successful in setting up Helios Cluster on Sun V20z
- Installation and configuration Computational Fluid Dynamic software (Fluent) on Helios Cluster. And Provide training and guidance to researchers using Sun Grid Engine (SGE) Batch scheduler for parallel and sequential job submission
- Installation the PAKSA 88 processor cluster at Chulalongkorn University for chemical computational for drug discovery (Bird flu and HIV)

**High Performance Computing and Networking Center (HPCNC)  
Assistance Researcher****2003 – 2005**

Study in new release technology and provide technical training. Prepare documentation and coordinate with other researcher's group.

**Key Achievement**

- Setup 6 nodes GIS pilot cluster at Geo-Informatics and Space Technology
- Development Agency (GISTDA) for storing and processing remote sensing data.
- Participated to engineering team to sharing a technical expertise for grid computing team at University of Malaya (Malaysia) for build the "UM E-Grid GERANIUM"
- Instructor in many training course include in-house training such as
  - Instructor of Installing and Using Cluster Workshop at Faculty of Engineering Khonkaen University
  - Instructor of Basic Linux and Developing Web Database Course at Thai Life Insurance
- Build 6 nodes web cluster for [www.virginradiothailand.com](http://www.virginradiothailand.com)
- Organize "Thailand Grid and Cluster Computing 2004" Conference (TGCC2004)

**Paktai Chueplerng Public Company Limited (PT)  
Staff of Information Technology Division****3/2002 – 5/2003**

Development of an intranet system including workflow system, secure authorization for internal operation.

**Key Achievement**

- Develop a web-base workflow program consist of more then 10 subsystems by using PHP and Oracle on Solaris platform.
- Develop secure authorization with PKI standard by using OpenSSL.
- Building an oil price alert system and Oil price changing report

### Education & Credential

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- Fundamental Information Technology Professional Examination (ITPE : FE) Certificate. 2009.
- The First Degree Religious Student (Nuk Tum Aek). 2006.
- M.Sc. (Information Technology) King Mongkut's Institute of Technology Ladkrabang. 2006.
- Graduate Diploma (Teaching Profession) Ramkhamhaeng University. 2004.
- B.A. (Political Science) Ramkhamhaeng University. 2003.
- B.B.A. (Information System) Rajamanagala Institute of Technology. 2001.

### Training Background

- New Entrepreneurs Creation (NEC) @ KU (KU-NEC 14)
- CCNA Training Course @IT KMITL
- Oracle9i DBA Training Course @IT KMITL
- Oracle10g at Oracle University Singapore

### Professional Affiliations

- Adjunct Lecturer at Department of Information System, Faculty of Business Administration, RMUTT
- Teaching a PHP Course at Internet and Design Institute (NetDesign)
- IT Consultancies of The Travel Team Co, Ltd.

### Publication

- Kittirak Moungmingsuk and Putchong Uthayopas. "Performance Modeling of PVFS Parallel File System on Commodities PC Cluster". **In Proceedings of the 8th Annual National Symposium on Computational Science and Engineering**, Nakhon Ratchasima, Thailand, 21-23 July, 2004.
- Sornchaya Rojanavipat Supasit Kajkamhaeng Kittirak Moungmingsuk and Putchong Uthayopas. "System Integration Experiences from the Building of A Tera-scale Cluster Systems for ThaiGrid". **In Proceeding of Thai Grid Computing Conference 2007**. Thailand, 23-24 August, 2007

### Extra – Activities & Reference

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#### Invited Speaker

- "เทคโนโลยีที่น่าจับตามองในปี 2009" คณะวิทยาการจัดการ มหาวิทยาลัยราชภัฏสวนสุนันทา, February 7, 2009.
- "แนวโน้มทางธุรกิจกับการเติบโตของ Cloud Computing" มหาวิทยาลัยปทุมธานี, January 25, 2009.
- "Parallel Virtual File System" **13th Workshop on Uninet Network and Computer Application**. Burapha University, July 12, 2005.
- "NPACI ROCKS Technology" **16th Workshop on Uninet Network and Computer Application**. Rajamangala University of Technology Srivijaya, Trang Campus, February 1, 2007.

#### Acknowledgment Paper

- L.Y. Por, M.T. Su, T.C. Ling, C.S. Liew, T.F. Ang, K.K. Phang. "Issues of Establishing a Campus-wide Computational Grid Infrastructure in the GERANIUM Project" **in Proceedings of IEEE the International Conference on Networking, International Conference on Systems and International Conference on Mobile Communications and Learning Technologies**. 2006.

#### Article (in Thai)

- กิตติรักษ์ ม่วงมิ่งสุข และ ภูซงค์ อุทโยภาศ . 2547. "การประยุกต์ใช้ลินุกซ์คลัสเตอร์สำหรับสร้างระบบสตอเรจเซิร์ฟเวอร์ขนาดใหญ่ในราคาประหยัด". ไมโครคอมพิวเตอร์. (222) .
- กิตติรักษ์ ม่วงมิ่งสุข และคณะ. "กริด อำนานาจแห่งการเชื่อมโยงข้อมูล". ไมโครคอมพิวเตอร์. (232) : 114 - 119.

#### Volunteer

- Blood/Platelet Transfusion (donation) at Siriraj Hospital, More than 75 times, since August 17, 1996.
- Tsunami Volunteer at Wat YanYao, Phang-nga in Jan 1-9 2005.

**References**

- Assist Prof. Dr. Putchong Uthayopas. Head of High Performance Computing and Networking Center (HPCNC), Kasetsart University . <pu at ku dot ac dot th>
- Assoc. Wasun Kan-um. Lecturer at Department Information System, Faculty of Business Administration, Rajamangala University of Technology Thanyaburi. Tel. 0 2549 3259