CURRICULUM VITAE

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RESEARCH INTERESTS

Computer vision and Image processing, IoT applications, Precision Farming, Smart Farming Systems, RFID applications

EDUCATION

King Mongkut's University of Technology Thonburi 2002
- M.S. in Technical Education

Ubon Ratchathani Rajabhat Institute 1995
- B.S. in Industrial Computer (Industrial Electronics Technology)

PROJECTS AND RESEARCH

- Efficiency improvement in shrimp farm management using smart farming and artificial intelligent technology
  [Status: Ongoing, Funding Source: Thailand Science Research and Innovation (TSRI)]
- A development of an extension board and a library on Arduino platform for water quality monitoring
  [Status: Completed in 2020, Funding Source: National Research Council of Thailand (NRCT)]
- The Development of an IP public address system and IP speaker with Raspberry Pi
  [Status: Complete in 2017, Funding Source: Talent Mobility Project, Office of the Higher Education Commission]
- The Development and Utilization Study of an Intelligent Integrated Macrobrachium Rosenbergii and White Shrimp Farming using a Wireless Sensor System (phase 2)
  [Status: Completed in 2017, **Funding Source:** National Science and Technology Development Agency (NSTDA)]
- The Development of Voice over Internet Protocol (VoIP) Laboratory Experiments using Asterisk Frame Work
  [**Status:** Completed in 2015, **Funding Source:** National Research Council of Thailand (NRCT)]
- A Study of Efficiency and User Satisfaction in Cutting over from an Analog to a VoIP Telephone System
  [**Status**: Completed in 2014, **Funding Source:** Nakhon Prathom Rajabhat University]
- The Design of Time Synchronization Protocol for Mobile Underwater Acoustic Networks Using Cross-layer Design Technique
  [**Status:** Completed in 2014, **Funding Source:** National Research Council of Thailand (NRCT)]

- The Development and Utilization Study of an Intelligent Macrobrachium Rosenbergii Farming using Wireless Sensor System
  [**Status:** Completed in 2014, **Funding Source:** National Science and Technology Development Agency (NSTDA)]

- The Development of Wireless Sensor Mote for Applications in Wireless Sensor Network
  [**Status:** Completed in 2014, **Funding Source:** National Research Council of Thailand (NRCT)]

- The Development of a Smart and Low-cost IP-based Public Address System
  [**Status:** Completed in 2014, **Funding Source:** National Research Council of Thailand (NRCT)]

- The Design of a Network Protocol for Extending the Lifetime of Underwater Acoustic Sensor Networks
  [**Status:** Completed in 2014, **Funding Source:** National Research Council of Thailand (NRCT)]

- The Development of a Voice over Internet Protocol (VoIP) System for Nakhon Prathom Rajabhat University: An application level (phase-2)
  [**Status**: Completed in 2013, **Funding Source:** Nakhon Prathom Rajabhat University]

- The Implementation of a Voice over Internet Protocol for Nakhon Prathom Rajabhat University.
  [**Status**: Completed in 2012, **Funding Source:** Nakhon Prathom Rajabhat University]

- The Development and Performance Study of a Voice over Internet Protocol in an Educational Institute: A case study of Nakhon Prathom Rajabhat University
  [**Status:** Completed in 2012, **Funding Source:** Office of Higher Education Commission]

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EXPERIENCE

Lecturer, Nakhorn Prathom Rajaphat University (NPRU), Thailand 1996 – present

- Program of Industrial computer

Assistant Director of Computer Center, NPRU 2014-2015

Associate Dean, NPRU 2552-2553
- Faculty of Science and Technology

Deputy Director, NPRU 2550-2552
- University Policy and Planning Division

Maxson System (Thailand) Ltd. 1995-1996
- Engineer

Delta Electronics Thailand Ltd. 1994-1995
- Head of production engineer

PUBLICATIONS

- Nitthita Chirdchoo and **Weerasak Cheunta**, "Detection of Shrimp Feed with Computer Vision," *Journal of Thai Interdisciplinary Research (JTIR)*, 2019.
- Nitthita Chirdchoo and **Weerasak Cheunta**, "Improving Efficiency in Shrimp Farm Management by Minimizing Unproductive Electrical Use and Utilizing Precision Aquaculture Technology," *Journal of Industrial Technology Ubon Ratchathani Rajabhat University*, July, 2019.
- Nitthia Chirdchoo and **Weerasak Cheunta**, "Development of a Shrimp Farm Management System using Precision Aquaculture Technology," (in Thai), *NCITE 2018*, Ubonrachathani, Thailand, Jul 26-27, 2018.

- Kanittha Saelim, **Weersak Cheunta** and Nitthita Chirdchoo, "Development of an API to reduce complexity in application developments on Arduino-based sensor nodes," (in Thai), *NCITE 2018*, Ubonrachathani, Thailand, Jul 26-27, 2018.
- Thiti Sittivangkul, **Weerasak Cheunta**, Nitthita Chirdchoo, and Lunchakorn Wuttisittikulkij, "Simple-API (Application Programming Interface) for an Arduino-based Wireless Sensor Mote," *ITC-CSCC 2015*, Seoul, Korea, Jun. 29-Jul. 2, 2015.
- นิฏฐิตา เชิดชู, **วีระศักดิ์ ชื่นตา** และขนิษฐา แซ่ลิ้ม, "การพัฒนาเครื่องชุมสายโทรศัพท์ไอพีด้วยซอฟต์แวร์โอเพนซอร์ส Asterisk บนอุปกรณ์เครื่องคอมพวเตอร์ระบบฝังตัวสำหรับใช้ในองค์กรขนาดเล็ก" การประชุมวิชาการระดับชาติ มหาวิทยาลัยราชภัฏนครปฐม ครั้งที่ 7,นครปฐม, 30-31 มี .ค.2558
- นิฏฐิตา เชิดชู, **วีระศักดิ์ ชื่นตา** และขนิษฐา แซ่ลิ้ม, "การศึกษาประสิทธิภาพและความพึงพอใจในการตัดถ่ายระบบโทรศัพท์แอนะล็อกสู่ระบบโทรศัพท์ผ่านอินเทอร์เน็ตกรณีศึกษามหาวิทยาลัยราชภัฏนครปฐม :" การประชุมวิชาการระดับชาติ มหาวิทยาลัยราชภัฏนครปฐม ครั้งที่ 7,นครปฐม, 30-31 มี .ค.2558
- นิฏฐิตา เชิดชู และ **วีระศักดิ์ ชื่นตา**, "การพัฒนาระบบกระจายเสียงระบบไอพีอันชาญฉลาดและต้นทุนต่ำด้วยซอร์ฟแวร์โอเพนซอร์ส Asterisk" การประชุมวิชาการระดับชาติ มหาวิทยาลัยราชภัฏนครปฐม ครั้งที่ 7,นครปฐม , 30-31 มี .ค.2558
- **Weerasak Cheunta**, Nitthita Chirdchoo and Kanittha Saelim, "Efficiency Improvement of an Integrated Giant Freshwater-White Prawn Farming in Thailand Using a Wireless Sensor Network" *IEEE APSIPA ASC2014*, Siem Reap, city of Angkor Wat, Combodia, Dec., 2014. .
- Thiti Sittivangkul,Nitthita Chirdchoo, **Weerasak Cheunta**, Muhammad Saadi and Lunchakorn Wuttisittikulkij, "Design and Development of a Wireless Sensor Mote Prototype for Laboratory Usage" *ITC-CSCC 2014*, Phuket, Thailand, July, 2014.
- Nitthita Chirdchoo, **Weerasak Cheunta**, Kanittha Saelim and Piya Kovintavewat, "Design and Implementation of a VoIP System for Campus Usage: A Case Study at NPRU," ISCIT 2013, Phuket, Thailand, 2013
- Nitthita Chirdchoo and **Weerasak Cheunta,** "Decision Analysis on Choosing between a Traditional Telephone and a Voice-over-Internet Protocol (VoIP) System: A Case Study in Nakhon Pathom Rajaphat University," (in Thai), *NPRU 2012*, Nakhon Pathom, Thailand 2012.

COMPUTER SKILLS

Programming Languages: C/C++, Assembly, PHP, Python, LABVIEW

INNOVATION DEVELOPEMENT

- **Assistant Project Manager:** Software design and development for SCG engineering system work project
  [Status: Completed in 2018, Employed by: SCG Packaging Public Company Limited]
- **Project Manager:** Time attendance system design and development
  [Status: Completed in 2014, Employed by: NEC Corporation (Thailand) Limited]