

Oliver C. Agustin, PhD

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IT Consultant

SUMMARY OF QUALIFICATIONS

- Over 20 years of solid IT industry experience in planning, designing, implementing and supporting information technology infrastructure.
- Excellent problem-solving and analytical skills
- More than 6 years of experience in IT research related to machine learning, image processing and computer vision.
- Loved to teach and share with students practical experiences and knowledge acquired over the years.
- Worked in academia for 3years (undergraduate course) and 3+ years in graduate school.

SUMMARY OF RELEVANT EXPERIENCE

ACADEME:

Assistant Professor. Angeles University Foundation, Angeles City, June 2009 – June 2012

Duties and Responsibilities:

- Subjects Taught:
 - Object-Oriented Software Development of Enterprise Systems
 - Information Systems Security & Assurance
 - Advanced Web Applications
 - Enterprise Integration
 - Digital Image Processing
- MIT/DIT Program Chair

Faculty Member. Wesleyan University - Philippines, Cabanatuan City, NE, June 1997 - April 2000

Duties and Responsibilities:

- Taught Digital logic circuit & advanced switching theory. Electronic Workbench 5.1 was used for software simulation.
- Lectures and laboratory projects were published in a web server (Windows NT 4.0 Server, IIS 4.0), quite new and revolutionary and new at that time.

RESEARCH:

Contractor. PhilRice (PhilRice), Munoz City, NE, June 2014 – 2017

Duties and Responsibilities:

- Developed an archiving and cataloguing system of rice varieties currently in storage at under Genetic Research Division of PhilRice
- Developed a Chalkiness Quality Analysis Software for Plant Breeding and Biotechnology Division.

Contractor. Philippine Center for Postharvest Development and Mechanization (PhilMech), Munoz City, NE, September 2008 – December 2010

Duties and Responsibilities:

- Conducted research for the development of corn and milled rice quality evaluation software. Scope include:
 - Background segmentation technique for extracting objects of interest from the acquired image.
 - Develop a digital separation of touching/occlusions algorithm in corn and rice kernels.
 - Build models for classification and analysis of milling degree.
 - Build models for classification and quality evaluation of milled rice.

Researcher. Security Engineering and Research Center/ Hannam University, Daejeon, South Korea, August 2008-January 2009

Duties and Responsibilities:

- Investigated various techniques of people counting algorithm in CCTV with my Phd professor, Dr. Byung-Joo Oh
- Develop and implemented background segmentation in video stream using C# as programming language and OPENCV library.
- Develop a neural network model-based people counting algorithm via density estimation. The method revolves around the concept of dividing each image frame into grids and analyzing this grids via density estimation model.

INDUSTRY:

IT Consultant. Cabanatuan City LGU, February 2011 – June 2012, January 2015 - present

Duties and Responsibilities:

- Provided training for software development team using Scrum Framework for project management, Visual C# and modern software development frameworks such as Prism, ReactiveUI, MVVMLight.
- Led a team of 6 software developers for the development of City's information system, integration of existing system, and other IT consulting services. Some of the projects are:
 - Design, development and implementation a Document Tracking System in 4 months using VB.NET 2010 that were completed in June 2011.
 - Procurement and Inventory Management System
 - Business Permit and Licensing System
 - RPTAMS – Real Property Tax & Assessment Management System

IT Consultant. Cabanatuan Electric Corporation, Cabanatuan City, NE, May 2009 – November, 2009

Duties and Responsibilities:

- Assess and recommend information system improvements for the company's information system
- Proposed solution to software incompatibilities encountered with their existing VB6 applications to work with the latest desktop operating system (Win7).

- Planning, design and cost estimation of 10GbE network backbone
- Develop specifications and configuration for BladeServer, Storage Area Network (SAN) solution, and disaster recovery solution.
- Design and implementation of a solution to integrate the following:
 - AutoDesk AutoCAD Map3D, home-brewed information systems and SynerGee Electric (engineering forecasting and simulation software)
- Implementation of a GIS software via Mapguide Open-source, integrating the customer information and engineering data with raster images.
- Image stitching and compression of TIFF image files into ECW format.

IT Consultant. Vera Equinox Technologies, Inc., Cabanatuan City, NE, October 2005 – present

Previous positions in this company in chronological order are (trainee, support engineer, service manager, general manager in a span of 9 years from 1995 – 2004 prior to finishing my MS degree). I became one of the incorporators of the business which provides quality IT services and support for consumers, SMEs and big companies in the province.

Duties and Responsibilities:

- Served as IT consultant for the company in its various project implementations.
- Talks directly with the client, providing prudent recommendations for improving the performance of customers' information system in terms of security, network performance, disaster recovery strategies, and system upgrades
- Provide customer assistance for the development IT strategic plans.
- Plan, design, and implementation various IT software and hardware projects. Some of these projects are:
 - 10 Gigabit Ethernet Backbone Project (implemented last Dec 2010)
 - Software integration for NEECO II Area 2 (design and implementation of a middleware application, enables exchange of data between 12 remote sites and data center, existing system is a DOS-based electric billing system.
- Direct the company to position itself as the best and only IT service provider in the province.
 - Authorized service provider for HP, IBM, ACER, E-machines, Gateway, Dell, Brother, and 5 others Manila-based IT company.
- Provide the last level of support for the customer for issues related to servers, storage and networks, firewall, security, and web.

EDUCATION AND CREDENTIALS

HANNAM UNIVERSITY, Daejeon, South Korea, February 2009
PhD Degree: Doctor of Philosophy in Information Technology (PhDIT),
Dissertation: Weight Estimation and Grade Factors Classification of Milled Rice Kernels using Support Vector Machines

HANNAM UNIVERSITY, February 2005
Master's Degree: Master of Science in Information Technology (MSIT)
Thesis: A Comparative Analysis of Storage Area Network Solution for Cabanatuan City LGU

WESLEYAN UNIVERSITY - PHILIPPINES, **BSECE**, April 1995

	<p>Bachelor's Degree: Bachelor of Science in Electronics & Communications Engineering (BSECE)</p>
<p>PROGRAMMING LANGUAGES</p>	<p>Programming Languages – VB, MATLAB 2008, C#, C++ Scripting Languages - WSH/WMI Web Scripting Languages - HTML, XML, PHP, ASP, AJAX Other Technologies, – Sharepoint, TFS, WCF, EF, MVC.NET</p>
<p>LICENSES AND CERTIFICATION</p>	<p>ECE Board Examination, 1997 Bachelor of Science in Electronics & Communications Engineer, PRC #0015129 Professional Civil Service Examination, 1996 Sub-Professional Civil Service Examination, 1994</p>
<p>PROFESSIONAL ORGANIZATION MEMBERSHIP</p>	<p>Journal of Information Technology Organization (JITE) Editorial Review Board, Reviewer http://jite.org/index.html</p> <p>2013 Informing Science + IT Education Conferences Jun 30 - Jul 6 2013, Porto, Portugal Reviewer http://informingscience.org</p> <p>Institute of Electronics and Communication Engineers of the Philippines (IECEP) - Member, 1997-present http://www.iecep.ph</p> <p>Institute of Electronics and Electrical Engineers (IEEE) - Member, 2005 - 2013 IEEE Communications Society - Member, 2005 http://www.ieee.org</p>
<p>RECENT LECTURES & WORKSHOPS</p>	<p>Advanced Laptop Repair Vera Equinox Technologies, Inc., 2013 – present Cabanatuan City, Nueva Ecija</p> <p>Enterprise Software Development (256 Hours) Cabanatuan Electric Corporation, October 2012 – March 2013 Cabanatuan City, Nueva Ecija</p> <p>Introduction to Matlab and Digital Image Processing – Resource Speaker College of Technology, Wesleyan University-Philippines, March 18, 2010 Cabanatuan City, Nueva Ecija</p> <p>Digital Image Processing – Resource Speaker Student Conference on Information Technology Education (SCITE), January 2010 Palayan City, Nueva Ecija</p> <p>Joomla! Content Management System Workshop – Resource lecturer Cavite State University, College of Engineering and Information Technology</p>

	<p>Indang, Cavite, March 26, 2009</p> <p>Division Training – Workshop on Website Development – Resource Speaker DepEd – Division of Bulacan, Balagtas Bulacan, July 13-15, 2007</p> <p>Regional Training – Workshop on Web Portal Development – Resource Speaker DepEd – Region 3, San Fernando City, Pampanga, May 23-25, 2007</p> <p>Algorithm Development of People Counting System in CCTV – Resource Speaker Security Engineering Research Center (SERC)/Knowledge Economy Ministry of Korean Government and Hannam University, Daejeon, South Korea, August 2008</p>
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<p>AWARDS/ RECOGNITION</p>	<p>"2009 AFMA Best R&D Paper for Technology/General Information – Agriculture Category", Bureau of Agricultural Research, Department of Agriculture - http://www.bar.gov.ph/news/21stnrswinner.asp</p> <p>In this project, we developed a new method for the automatic classification of milled rice grains, which is part of my research/dissertation in Daejeon, South Korea.</p>
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<p>INTERNATIONAL PUBLICATIONS</p>	<p>Journals:</p> <p>"Applications of Ward Network and GRNN for Corn Quality Classification," Journal of Korean Institute of Information Technology, vol. 5, pp. 218-225, 2007</p> <p>"Automated Milled Rice Quality Evaluation By Image Analysis," Journal of Korean Institute of Information Technology, vol. 7, pp. 87-94, June 2009</p> <p>" A Software Framework for People Counting and Monitoring System in CCTV," Journal of Korean Institute of Information Technology, vol. 8, pp. 141-148, December 2010</p> <p>"Power-Aware Algorithm for Scheduling Virtual Machines in Homogeneous Cloud Datacenters," in International Journal of Engineering and Management Research, vol 4, Issue 3, pp-350-353, June, 2014</p> <p>Conferences:</p> <p>"Automatic Milled Rice Quality Analysis," in The 2nd International Conference on Future Generation Communication and Networking, Hainan Island, China, December 13-15, 2008</p> <p>"Weight Estimation and Classification of Milled Rice using Support Vector Machines," in International Conference on Computer Vision Theory and Application Lisboa, Portugal, February 2009</p> <p>"Data Preprocessing Techniques for Data Integration," in The 3rd Asia Pacific International Conference on Information Science and Technology (APIC-IST 2008) Cavite, Philippines, December 18-19, 2008</p> <p>"People Counting Using Object Detection and Grid Size Estimation," In proceeding of: Communication and Networking - International Conference, FGCN 2011, Held as Part of the Future Generation Information Technology Conference, FGIT 2011, in Conjunction with GDC 2011, Jeju Island, Korea, December 8-10, 2011</p>
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LOCAL PUBLICATION	" Quality Analysis of Milled Rice Using Computer Vision ," in 7th International Agricultural Engineering Conference & Exhibition, 59th PSAE Annual National Convention, and 20th Philippine Agricultural Engineering Week, Pili, Camarines Sur, April 20-24, 2009
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PATENT APPROVED	" Method and System for Vision-based People Counting in CCTV ," Patent Application No. 10-2009-0012889 , Daejeon, South Korea, Filed: Feb 17, 2009, Approved & Registered: April 13, 2011
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INDUSTRY PROJECTS	<p>Industry Projects: As an IT Consultant, some of my recent/on-going projects were:</p> <ul style="list-style-type: none"> • 10 Gigabit Ethernet Backbone Project, Wesleyan University-Philippines, December 2010 • Server Virtualization & Migration Project, CELCOR • Financial Tracking System, Cabanatuan City LGU, June 2011. • Procurement & Inventory Management System, July 2011 –present. • Business Permit & Licensing System, Cabanatuan LGU, July 2012-December 2012 • Enterprise Inventory Management System, PUNP, August 2012-March 2013 • HR & Payrol Management System, NEECO 2 Area 2 – November 2014 – December 2015 • ASKI 10Gigabit Backbone & Controller-Based WLAN Mesh Network Project, ASKI, June 2015 • PUNP Enterprise Management System, March 2015 - present • Starline Enterprise Management System, April 2016 - present <p>Research Projects: I was/currently involve(d) in the following projects as a consultant/developer for the development of algorithm</p> <p>Philippine Center for Postharvest Development and Mechanization (PhilMech):</p> <ul style="list-style-type: none"> • Quality Analysis of White Corn Using Computer Vision, July 2011 – September 2011 • Performance Verification of the PhilMech Computer Vision System for Quality analysis of Rice and Corn, August 2011 – October 2011 • Insect Identification and Analysis, January 2012 – June 2012 <p>Philippine Rice Research Institute (PhilRice):</p> <ul style="list-style-type: none"> • Milled rice physical attribute evaluation, Plant & Breeding Bio-Technology Division, January 2014 – present • Rice Image Searching & Matching – Phase 1, Genetic Resources Division, June 2014 – December 2015 • Rice Image Searching & Matching – Phase 2, Genetic Resources Division, January 2016 – June 2016
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**RESEARCH
INTEREST**

Neural Network, Computer Vision, Image Processing, Design Patterns, Enterprise
Integration, Software Development