



**LIST OF GRADUATE THESES
As of March 2021**

Master of Science in Computer Engineering

- Adtoon, J. J. (2018). *Skin cancer detection and classification for moles using k-nearest neighbor algorithm* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Alanes, A. A. (2006). *Development of a thermally activated circuit for electric fan using microcontroller* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Amora, J. G. (2017). *Free Space Optical Communication based Outdoor Wireless Sensor Node Acquisition Using 532 nm Laser* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Anacay, E. B. (2005). *User interface generation for Smartphones* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Angelia, R. E. (2018). *Fermentation level classification of cross cut cacao beans using k-NN Algorithm* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Arriola, A. C. (2005). *Analysis of process display technique* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Baluyot, G. P. S. (2018). *Electrocardiogram monitoring using low powered mixed signal analog-to-digital with lossless decompression algorithm* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Baluyot, R. M. (2015). *Soil Moisture Controller for Vertical Greenery System Using Artificial Neural Network Based on Weather Application Programming Interface* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Bernardo, R. C. (2003). *Implementation of an e-service solution for the Center for Continuing Education and Special Competencies Department of Mapua Institute of Technology.* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Biceda, G. G. (2016). *An Aluminum Can Reverse-Vendo Machine with Transaction Monitoring System* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Caya, M. V. C. (2005). *Maximizing the power management feature of a computer through the integration of CPU-monitor mizer.* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.



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- Ceredon, G. J. G. (2016). *2D Ear-Based Human Identification System Using Geometrical Distance of Pedefined External Ear Points with canny Edge Detection Method*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Cuesta, J. B. (2014). *Controlling PH, conductivity and temperature for aquaculture system using cascade-forward neural network and genetic algorithm* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Cuesta, J. B. (2013). *Wireless data acquisition and web-based transmission system of ph and conductivity levels for hydroponics*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Cuñado, J. R. (2018). *A supervised learning approach to appliance classification based on power consumption traces analysis* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Cu-Unjieng, M. A. D. C. (2005). *Voice recognition interface in plantation control room operation* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Dangan, H. C. (2006). *Improving remote automation range and platform support* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Davanlou, N. (2013). *Zigbee Based Wireless Sensor Network for Monitoring Agriculture Environments*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Dela Cruz, M. S. M. (2005). *Rule-based shift scheduling design* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Del Amen, J.D.C. (2019). *Fuzzy Logic-based Controlled Environment for the Production of Oyster Mushroom* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua University.
- Dela Rosa, C. F. (2001). *The automation of room assignment of the Mapua Institute of Technology*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Delos Santos, M. A. E. (2005). *A study of nuisance alarm filtering methods in process control*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.



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- Dizon, J. R. E. (2013). *Android-based system for student examination with basic quantitative item analysis*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Duria, J. P. H. (2016). *Recognition of Tongue Print Biometric using Binary Robust Independent Elementary Features* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Estacio, R. R. (2019). *A Rotation Invariant Algorithm for Bimodal Hand Vein Recognition System*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Fagela, F. R. J. (2005). *Description and analysis of a conceptual model of the ICIS genealogy management system as implemented in the International Rice Information System* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Fernandez, G. D. (2003). *Development of business software for speeding up the program documentation for portfolio and performance assessment results of AMTIP-TESDA* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Galindo, J. A. M. (2018). *Development of street lighting system with object detection* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Gonzales, J. L. S. (2016). *Adaptive Performance Throttling of General Purpose Processor Using an Integrated Energy Management Unit for Battery-less Wireless Sensor Networks*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Goudarzi, A. (2012). *A Probabilistic Determination of Reserve Requirement Level in an Energy and Reserve Co-optimized Electricity Market with Distributed Intermittent Generators*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Ibañez, V. P. (2015). *Development of an Android Application for Power Consumption Management System Using Programmable Toggles Switch* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Illahi, A. A. C. (2009). *Hand signal recognition tutorial for deaf-mute: a prototype*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Itoralba-Bucac, B. V. (2001). *An assessment of the repair and maintenance support service of Hytech Integrated Products, Inc.* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.



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Master of Science in Computer Engineering

- Lazaro, J. B. (2013). *Surface Electromyography Signal for Control of Myoelectric Prosthesis of the Upper-Limb Using Independent Component Analysis*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Lazaro, J. B. (2012). *Design of Surface Myoelectric Prosthesis using microcontroller*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Lim, A. M. L. (2006). *Generating unit tests from UML diagrams towards a test-driven development* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Lindo-Aquino, G. (2001). *E-procurement system analysis and design for Unilever Philippines* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Macedonio, L. E. C. (2011). *Automatic water meter reading using IEEE 802.15.4 Standard for wireless networking and magnetic hall sensor*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Maglalang, E. S. (1999). *Network management using the netfinity server*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Malbog, M. A. F. (2017). *Android-Based Non-Invasive Glucose Meter* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Manzanas, W. M. D. (2015). *Modified Programmable Toggles Switch Using a Low Power 433 MHZ ISM Band Wireless Module*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Maramba, R. G. (2002). *Design of a wireless local-area network in extending the existing LAN facility at Interface Computer College in Davao City*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Medroso, D. R. (2015). *Smartphone-Based Breath Analyzer in Android Platform*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Memam-Dizon, J. G. (2001). *Proposed wide area network (WAN) design for the housing and land use regulatory board*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.



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Master of Science in Computer Engineering

- Mendoza, J. J. B. and Pabiania, M. D. (2009). *Measurement of conductivity and pH level for waste water monitoring system through wireless transmission*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Mendoza, L. D. (2005). *Design of a microprocessors-based traffic control system to minimize traffic congestions on busy street intersections*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Mistal, M. L. L. (2018). *Early warning device for brown planthopper detection in palay using wireless sensor networks*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Montaño, V. D. (2014). *ECG Signal Classification for Remote Area Patients using Artificial Neural Networks in Smartphone*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Mousavi, F. F. (2011). *Zigbee based wireless system for displaying ECG signals*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Nicolas, J. G. (2015). *Wearable Electroencephalogram (EEG) - Based Drowsiness Detection System Using Arduino With Wireless Network Transmitter Through Zigbee*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.
- Pabiania, M. D. (2010). *Wireless data acquisition and pH and conductivity levels prediction using genetic algorithm for hydroponics*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Pagarigan, A. M. V. (2018). *Effect of extending sunlight exposure using light compensation system of zea rugosa (sweet corn)*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Pangantihon, R. J. S. (2018). *FPGA-Based plant identification through leaf veins*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Parreno, M. V. (2008). *A Three-year network infrastructure technology roadmap with disaster recovery plan of Ayala HR mall*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Pascual, A. P. (2003). *A study on the implementation of automated meter reading (AMR) in Meralco's statistical meter*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.



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- Perez, N. D. B. (2018). *Identification of a dried sea cucumber species using color and texture extraction*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Piscasio, A. O. (2014). *A heuristic decision tree algorithm for Filipino Sign Language (FSL) translator implemented using accelerometers with bluetooth connectivity to a host PC*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Reaport, K. C. (2003). *Ermita-Malate interactive tourist guide: a web based GIS application* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Rey, W. P. (2005). *Analysis and design of TRACE network infrastructure*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Ricafort, J. P. A. (2007). *Workflow behavior shift record migration tool*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Rosal, J. E. C. (2018). *Development of a structural health monitoring system for midrise structures*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Santos, A.B. (2020). *Drip Irrigation Technology through Wireless Sensor Network using Message Queuing Telemetry Transport Protocol for Peanut (PN9) Production* [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Santos, J. E. S. (2006). *3D visualization of trends in process controls for fault monitoring and analysis and data prediction* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Sinco, M. J. G. (2014). *Development of kiosk for dental bracing procedure thru image processing*. [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.
- Suasin, M. P. (2018). *In-situ measurement of methane flux from residential compost using automated static chamber and eletrochemical sensor*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Suniga, E. R. (1999). *Telephone system using interactive voice response system*. [Master's Thesis, MSCOE]. School of Graduate Studeis, Mapua Institute of Technology.
- Taghoy, D. M. (2018). *A fuzzy logic approach for the determination of cavendish banana shelf-life*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.
- Tayo, C. O. (2018). *Portable crack width calculation of concrete road pavement using pattern*



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recognition. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.

Tirol, S. M. (2017). *Automation of Quantification Activities of Semiconductor-Back-End Process Using Binary Search Algorithm*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.

Torres, J. L. (2013). *Application of Genetic Algorithm for Acquisition and Optimizing of Data in Surface Myoelectric Prosthesis of the Upper-limb* [Master's Thesis, MSCOE]. School of Graduate Studies, Mapua Institute of Technology.

Trinidad, K. R. (2017). *Understanding the Mentally Disturbed's Reality through Heart Rate Controlled Virtual Reality: Inducing Artificial Auditory Hallucination and Persecutory Paranoia*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.

Vahid, F. S. (2008). *An investigation of the wireless LAN security overhead*. [Master's Thesis, MSCPE]. School of Graduates Studies, Mapua Institute of Technology.

Verallo, C. M. (2018). *Hough circle transform image processing particle analysis-based sieve meshes for silica sand*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua University.

Villareal, J. N. (2016). *Implementation of Genetic Algorithm-Simulated Annealing on a Face Biometric System*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.

Villariña, M. E. C. (2015). *Palm Vein Recognition System Using Directional Coding and Back-Propagation Neural Network*. [Master's Thesis, MSCPE]. School of Graduate Studies, Mapua Institute of Technology.