



**LIST OF GRADUATE THESES**  
**as of October 2021**  
**Master of Science in Electronics Engineering**

- Ablidas, M. R. M. (2017). *Image Processing Technology Using Hough Transform for Counting Reinforcement Bar for Steel Rolling Mill* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Abuzo, M. M. (2004). *Extending the functionality of the Mapua Cardinal Plus card in providing security and time-monitoring of restricted areas in the school of EE-ECE-CoE* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Adoh, K. E. (2018). *Utilization of Rainwater from an Overhead Tank as an Active Cooling Agent For A 100Watt Single Axis Solar Tracker Module* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Alba, H. E. C. (2016). *Microcontroller-Based Controlled Environment For Hydroponic Cultivation of Lettuce* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Alba, Y. R. R. (2018). *Adaptive Traffic Light Scheduling System based on congested vehicle queue length using image processing by median stacking* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Almeda, R. P. C. (2004). *Designs for output voltage modification of a low-power single-output 150-watt switch-mode power supply, PSUX series* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Amboy, J. M. (2018). *Optimization of the Dip Coating Parameters for Depositing Cesium Lead Halide Perovskite Quantum Dot Films on Gallium Arsenide Substrates* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Anire, R. B. (2017). *Wireless Sensor Network with Compressive Sensing based on Bayesian Framework applied in Greenhouse Monitoring System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Ano, R. Y. C. (2018). *Design of NEM (Nano-electro-mechanical) Relay to Improve Leakage Current Testing in IC (Integrated Circuit) Manufacturing* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Antimano, P. R. (2008). *Perception control agent in sensor failures or communication disruptions using neural networks* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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Master of Science in Electronics Engineering**

- Arciaga, R. L. (2009). *Dual-pass transistor logic using polymorphic gates* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Arinduga, M. A. (2014). *Improving the aluminum wedge bonding process yield through modification of bonding machine's ultrasonic power and force parameters* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Asuncion, R. V. (2001). *Lasam, Cagayan multichannel multipoint distribution system (MMDS) repeater project proposal* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Atienza, J. V. (2011). *Employing failure analysis techniques and field measurements in determining and Eliminating Electrostatic Discharge (ESD) source on a Radio Frequency (RF) transceiver* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Avendaño, G. O. (2002). *A study on the implementation of multiservice IP telephony in Mapua Institute of Technology* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Bagual, M. F. (2018). *Implementation of Sense Voltage Feedback Mechanism for Improvement of Offset Voltage Trim Test Performance of Current Sense Amplifier* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Balakit, R. B. (2019). *Sonde Instrumentation for Upper-air Weather Monitoring System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Balinado, F. J. C. (2012). *Regenerative Brake System for a Fuzzy logic Controlled Electric Machine-Driven Wheel* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Banlawe, I. A. P. (2014). *Aural and photonic spectrum based digital pest controller for Oryza Sativa (Rice)* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Baral, M. C. (2010). *3-bit odd-even parity circuit/majority-minority bit indicator utilizing polymorphic gates* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Electronics Engineering**

- Bejasa, W. P. (2008). *Minimization of metastable transient response in digital VLSI Virtual Model via Pass Transistor with CMOS Skewed inverter* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Bello, I. B. R. (2009). *Fabrication and thermophysical characterization of carbon nanotube-aluminum metal matrix composite heat sink* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Benito, J. M. B. (2015). *Phase Noise (PN) Measurement in RF Test System using Delay Line Discriminator (DLD) Method* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Cabaccan, C. N. (2017). *Power Characterization of Sensor Nodes based on Raspberry Pi Platform in Wireless Sensor Network for Agriculture Environment Monitoring* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Canlas, R. D. (2016). *Microcontroller Based Wireless Solar Battery Monitoring System Electrical Load Prioritization For Off Grid Residential Application* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Capul, M. C. F. (2017). *Arduino-Based Electrocardiograph for Heart Rate Monitoring System with Beacon Technology* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Cardenas, J. B. (2013). *Characterization at 1.5 Gigahertz of an Antenna with a Driven Dipole and a Rotating Quad Parasitic* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Casimiro, A. S. (2011). *Design of an automated control system for mushroom grow-house using fuzzy logic method* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Chan, C. B. C. (2017). *A Single Ended Zero Aware Asymmetric 4T SRAM Cell* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Chinlee, L. F. (2004). *Proposed digital network design for the Lucio Tan group of companies* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Electronics Engineering**

- Ciruelas, J. S. (2009). *Development of a comparative analyzer for tuning method selection of a PID controller* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Colasito, R. B. (2015). *Digitally Controlled Classroom Lighting System With Online Access* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Collado, M. R. L. (2019). *Ship Detection and Tracking for Philippine Maritime Monitoring and Surveillance using Pulse-Swept FMCW Compact High Frequency Surface Wave Radar* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Concepcion, R. S. (2017). *Structural Health Monitoring of Bridge Using Wireless Sensor Network with Temperature Compensation via Principal Component Analysis* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Corsino, M. A. (2001). *Increasing the percentage of line of sight homes within the service area of Cagayan satellite program network (CSPN) using distributed power approach* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Cortes, F. S. (2003). *Microcontroller-based power saver (MIPS) for East Asia College of Information Technology* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Cruz, F. R. G. (2008). *Electronic tongue system with chlorine appetite* [Master's Thesis, MSECE]. School of Graduate Studies, Chung Yuan Christian University.
- Cruzat, E. S. (2002). *Output modification of a universal input flyback converter* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- David, D. D. (2018). *E-Buriki: a rice grain analyzer for length, moisture content and whiteness of milled rice grains* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- David, J. H. G. (2014). *Nitrogen Deficiency Checker of Palay (Oryza sativa L.) through Leaf Coloration* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Electronics Engineering**

- David, L. C. G. (2017). *Synergistic Use of Airborne LiDAR and Aerial Imagery from Unmanned Aerial Vehicle for Detailed Resources Mapping Using Decision Tree-based Support Vector Machine Classification* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- De Belen, M. C. (2017). *Monitoring and Assessment of an Aquaculture System Using Linux Microcomputer with Sensor Compensation* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- De Jesus, J. M. D. (2016). *Open-Source Software Application Service for Enhanced Deblocking Filter of High Efficiency Video Coding (HEVC) in Blocking Artifacts Reduction* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- De Jesus, M. B. (2013). *Thermophysical Characterization of Aqueous Ternary System Containing N-tris-[hydroxymethyl]methyl]-3-aminopropanesulfonic Acid and Glycol (DEG/TEG/T4EG/PG/DPG or TPG)* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- De Lara, C. A. L. (2009). *Wireless based expert control system* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Decena, J. D. (2013). *Philippine Peso and US Dollar Converter with Counterfeit Detection through Image Processing using PCA and Neural Network Based Classification Algorithm* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Dela Cruz, R. S. S. (2008). *Predictive adaptive control in water heating systems with varying delay* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Delos Reyes, M. J. S. (2017). *Development and Implementation of Low-Cost Salinity and Temperature Monitoring System for Mangrove Forest*. [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Delos Santos, C. V. (2003). *Improvement of test procedure in the 603 station using PC-based testing at Dyna Image Corporation, Philippines* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Electronics Engineering**

- Deplomo, B. N. I. (2018). *Conveyor based classifier of Allium Cepa and Allium Sativum Linn for quality grading based on the Asian Standard and Philippine National Standard using Image Processing Algorithm* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Destacamento, R. M. (2011). *Test time reduction on verigy 93k tester platform through selective datalogging* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Deveras, D. A. (2015). *A Kalman Filter-Based Thermal Management of an Aquaponic System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Dimaunahan, E. D. (2016). *Automated Taller Machine Security for the 4P's Biometric System Using Fingerprint Recognition with Fast-Fourier Transform Image Enhancement and Multi-Stage Minutia Extraction* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Dionisio, V. L. (2008). *Dynamic matrix control algorithm for load disturbance of heat exchanger* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Dioquino, M. A. (2009). *Fabrication and characterization of epoxy molding compound incorporated with surface functionalized multi-walled carbon nanotube* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Ebrahim, H. (1993). *Research on diamond phase carbon films: structure of diamond phase carbon films and its physical properties synthesized by ionized deposition technique* [Master's Thesis, MSECE]. School of Graduate Studies, Tokyo University of Agriculture and Technology.
- Edpan, J. B. (1998). *Die shear test predictor* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Ellazar, A. O. (2016). *Implementation of Checkers in Tunney Temperature Chamber and Thunder Humidity Generator for Calibration Failure Detection and Process Time Reduction* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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- Enerio, N. C. (2016). *On-Board Based Linearity Testing For Nano-Digital to Analog Converters Products* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Erfe, H. D. (2005). *A study of communication and control unit and its communication link failures affecting the RCLS controls of Meralco* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Escandor, E. J. DG. (2012). *Die crack phenomenon analysis for a single chip Radio Frequency (RF) transceiver device* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Esquejo, L. P. (2002). *PC interfaced microcomputer system trainer* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Estalilla, O. D. (2004). *A network security system for the WiFi (wireless fidelity) service of an academic institution* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Estampa, L. J. B. (2009). *Intelligent tuning of a PID Controller using artificial neural network* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Estrera-Latina, M. A. T. (2002). *Website hosting and development in Western Batangas through the facilities of Westlink communications* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Garcia, A. C. (2004). *Time and attendance infrastructure for STRADCOM* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Garcia, D. W. (2021). *An Automated Candling System for Duck Egg Fertility Detection, Sorting, and Counting via Digital Image Processing* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Garcia, G. A. (1997). *Integrated control tower system monitoring board* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Garcia, R. S. (2009). *Study on characteristics of Intelligent Home Electricity Management (iHEM) with disturbed monitoring of parameters and real time current-limiting protection* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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- Gayeta, A. R. M. (2009). *Evaluation of thermal paste polyol ester based filled with multi-walled carbon nanotube for developing thermal interface material* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Gayol, R. L. B. (2010). *Test time reduction on testing power management integrated circuits through vector padding in 93K verify agilent platform* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Geslani, G. R. M. (2017). *Identification of Driver Drowsiness using Multiple Facial Feature Extraction* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Ghorban N. B. (2013). *Gaze Classification Using Artificial Neural Network (ANN)* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Gilera, M. V. (2011). *Integrated Programmable Octal Voltage and Current (IPOVI) Source Circuit tester in the loadboard for extending multisite testing* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Gonzalo, W. R. (2015). *Cardiopulmonary Resuscitation Portable Assisting Device and Data-logging for Adults* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Guarin, H. A. (2009). *The Microstructure and thermal stability of dye sensitized polymer solar cell fabricated using polyaniline dye and catalytic carbon nanotube counter electrode* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Gugol, A. J. Y. (2008). *Design of a fuzzy-PID controller for water level control in a gravity drained tanks process* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Guintu, E. L. E. (2012). *Cartesian genetic programming for a multifunctional 2 by 2 bit multiplier / 4 bit even parity generator combinational module using C++* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Hamrang, S. (2014). *Android Application System for the Remote Control of Electronic Devices via Bluetooth* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.





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- Heredia, A. P. D. (2015). *Olfactory Classification using Electronic Nose System via Artificial Neural Network* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Heromiano, M. A. (2007). *Automation of temperature monitoring and integration with statistical process control (SPC) analysis in BCBS, NXP semiconductor Cabuyao* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Hiwatig, C. D (2007). *An automated control of lubrication in electrical machines* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Hosmillo, J. B. (2008). *Thermal resistance of halloysite nanotubes with silicone oil nased TIM for heat sinks in microprocessors* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Hutabarat, G. A. (2014). *Investigation of UAV attitude using the GPS & IMU sensor with Kalman Filter Estimation Algorithm (KFEA)* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Ildefonso, C. B. (2018). *Comparison on application of LED grow lights for microgreens and utilization of an ammonia detection device for water smell for the aquavermiponics system of fedrow* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Ingusan, E. A. Z. (2012). *Palladium Coated Copper Wire on Stacked-Overhang Die using Reverse Stand-Off Stitch Bonding for Assembly Packaging* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Jancinal, J. I. (2005). *A comparative study for conventional and vacuum mold machines to reduce package void defect for system-in-package (SiP) modules* [Master's Thesis, MSECE]. School of Graduate, Mapua Institute of Technology.
- Javier, N. C. (2014). *Fuzzy Logic-Based Two degree of freedom Robotic Arm Movement* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Jose, A. G. (2018). *Eagle ETS88 Resource Systems Analysis Tool For Test Program Verification* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.



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**Master of Science in Electronics Engineering**

- Jose, J. J. G. (2008). *A design of LAN and WAN network connectivity for spectrum waters technologies incorporated* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Kahar, Y. S. (2008). *Development of an expert-system operator advisory for foundation fieldbus device communication statistics* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Kiat, N. M. (2004). *Design and construction of a DC/DC regulator training board with a 555 timer-based control circuit to drive a power MOSFET* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Lajara, E. M. (1999). *A documentation on the development of dispatcher 2000 for Omni net Phil., Inc.* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Landicho, L. C. L. (2014). *A method of precise gain measurement using frequency domain analysis technique as solution to a high rate of in-line sampling failure* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Laya, G. C. (1999). *Computerized enrollment system engineering and technology department City College of Manila* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Lee, A. J. U. (2008). *Fabrication and application of multi-walled carbon nanotube reinforced OEM heat sink using dip coating method* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Legaspi, F. B. (1999). *A practicum project paper on application of local area network (LAN) in Manila Broadcasting Company (MBC) computer system* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Loraez, A. G. (2010). *Pattern-based dice testing in wafer test maximum throughput of high-yielding universal serial bus devices* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Lorenzo, D. Z. (2008). *Mechanical and electrical properties of copper wire bonds reinforced with 1% cadmium using fast recovery epitaxial diode device* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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- Lorenzo, J. J. (2016). *Electrochemical Double Layer Capacitor Fractional Order System Model with Parameter Extraction Method* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Macolor, R. Q. (2018). *Fuzzy logic PID control for solar powered aquaponics system's acidity, dissolved oxygen, salinity and temperature* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Magboo, M. L. A. (2009). *Design of an incal-standard driver board signal integrity checker for SRAM burn-in with non-scan patterns and automation impact on cycle time* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Magno, M. F. (2009). *Power efficiency of dye-sensitized solar cell using emeraldine base form polyaniline as photosensitizer and catalytic multiwalled carbon nanotubes counter-electrode* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Majait, N. A. (2017). *Development of a Do-It-Yourself Thermal Grease: Thermal Interface Material Polymer-based Composite with Carbon Nanotubes Filler* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Maleriado, M. A. G. (2010). *Yield improvement of prilling process for 80um solder ball product through Six Sigma Approach* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Maliwat, S. A. (1997). *A research paper on door access with burglar alarm* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Manalastas, E. M. (2009). *Development of PCB insulating substrates using nanoclay/carbon nanotube filled polycarbonate nanocomposites* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Manalo, J. C. (2018). *On-the-rack Phase Noise Test Solution of 36 GHZ to 40 GHZ voltage-controlled oscillator* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Maningat, E. I. (2009). *A Fuzzy controller design with genetic algorithms optimization for a pneumatic pressure system* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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- Manlapaz, V. J. C. (2018). *An Approach in Testing the Absolute Maximum RF Input Power of an RF & Microwave Power Amplifier* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Martin, M. A. (2005). *Determination of the factors that affect the measurement of ultra-low resistance structure using 4-point resistance technique* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Martinez, C. O. (2011). *Biodiversity sustainability using telemetry for the remote transmission of data from Lake Buhi, Camarines Sur* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Mercado, R. A. O. (2009). *Robust predictive control in a temperature controller* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Micaller, J. D. (2006). *Wireless local area network for the work-in-progress control system* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Mirabuenos, M. G. (2001). *Utilization of automation equipment at the Bulacan State University leading to the establishment of a training center* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Montances, M. O. (2016). *Design and Implementation of a Piano Tuning Algorithm based on Actual Strings Inharmonicity and Sensory Dissonance using MATLAB* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Nilo, J. C. B. (2013). *Automated Duck Egg Classifier System Using a Combination of Impulse Response, Machine Vision and ANN Technologies* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Nogralas, A. H. H. (2012). *Wireless system for pregnancy detection in cows by monitoring temperature changes in body* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Ong, C. C. (2013). *Power line Communication based Smart Lighting Control System Integrated with Wireless Sensor Network* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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- Pagalanan, C. A. (2011). *Improving manufacturing test yield on a glass breakage sensor chip* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Paglinawan, A. C. (2005). *Design of active high frequency tags for electronic article surveillance as radio frequency identification application for laboratory equipment in Mapua Institute of Technology* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Pagtakhan, N. S. (2009). *Robust control design for pressure control system using quantitative feedback theory* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Panegro, M. C. (2019). *Circuit Design of Sensor Amplifier of Blood Pressure Measurement use in Telehealth System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Pangaliman, M. M. S. (2018). *Development of an Improved Acoustic Dendrometer through Utilization of Machine Learning Algorithms* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Pangiligan, R. B. (2016). *Development of Cloud Robot Controller Trainer Using Message Queuing Protocol for Bulacan State University* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Pangilinan, M. N. E. (2014). *Design and development of an oil spill detection and transmission system using artificial illumination with LEDs* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Pedrosa, B. M. (2016). *Standalone Solar-Wind Hybrid Energy System with the Integration of Supercapacitors* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Posadas, R. C. (2005). *Design of automated probing system for the implementation of time-domain reflectometry methodology in ball grid array/pin grid array packages* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Quezada, L. R. R. (2018). *Overvoltage and Overcurrent Protection Clamp Circuit for Power Management ICs* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.



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- Quibuyen, P. E. (2019). *Design and simulation of weight perturbation learning of an analog (ANN) implemented using FB MOSFET Analog memory and differential synapses* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Reano, R. A. L. (2016). *The Design, Development, and Evaluation of a Disk Scratch Detection Model Using Slider Test Parameters* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Redoña, B. M. (2000). *Parameter optimization of ESEC2005 die bond machines to obtain accurate wire-bond wedge replacement* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Regalado, R. G. (2014). *Soil pH and Nutrient (Nitrogen, Phosphorus and Potassium) Analyzer using Colorimetry* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Reodica, A. M. (2004). *Design of a network infrastructure for De La Salle Lipa's intranet using multilayer switching* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Reyes, R. A. S. (2017). *Improved Detection of IC Assembly Wire Defect based on Equivalent Circuit Model of the Defect* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Reyes, R. C. (2016). *Derating Transient Voltage Suppressor Diodes For Burn-In Applications* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Ricamara, T. M. (2014). *Design of digital cable television headend system for content security* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Rivera, L. A. (2009). *Design of 1-Bit full adder circuit using polymorphic logic gates* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Rodrigues, A. N. (2014). *Design of 900 MHz AC to DC Converter using Native CMOS Device of TSMC 0.18 Micron Technology for RF Energy Harvest Application* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



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**as of October 2021**  
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- Rueda, R. S. (2016). *Design of Dib and Test Program for Characterization of ADC Using PXI-Based Semiconductor Test System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
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- Sabado, G. D. (2009). *Design of the implantable CMOS telemetry for the power and data transmission of the orthodontics smart bracket* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Salalila, N. A. (2002). *Upgrade of CAMANAVA sky cable system using hybrid fiber coaxial (HFC) network* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Salazar, C. M. (2014). *Precision Vibrometer Based on Commercial Grade Low Gee MEMS Accelerometer with LASER Displacement Measurement Calibration Technique* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Salimbangon, J. C. P. (2007). *The effect of body biasing on the leakage current of sub-90nm CMOS technologies* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Samortin, A. C. (2019). *The Utilization of Electromagnetic Radiation in Inactivating Staphylococcus aureus* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Santiago, J. R. P. (2017). *Comparison of the Performance of a Single Roof Mounted Antenna vs. a Dashboard Mounted Antenna for the Efficient Digital TV Reception inside a Moving Vehicle* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
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**LIST OF GRADUATE THESES**  
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- Sarmiento, M. A. C. (2006). *Testing the chloride ingress test apparatus through automated control prototype* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Sarte, S. M. (2017). *Extraction of Individual Coconut Tree Crowns Using LiDAR First Returns through Object-Based Image Analysis (OBIA)* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Sejera, M. P. (2005). *Development of modular experiments in communications II laboratory using motion picture experts group (MPEG) transport monitor in digital telecommunications networks.* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Sembrano, B. W. (2018). *Simulation Tool for Testing Voltage Reference ICs over Temperature* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Sison, E. M. (2005). *Optimization of active thermal control technology for testing Intel® Pentium®4 microprocessors* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Soberano, L. G. (2015). *Packaging of Conventional MOSFET Structure in a Stack Die Configuration for a DC-DC Synchronous Buck Converter* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Tabal, K. M. R. (2015). *Microcontroller-Implemented Artificial Neural Network for Electrooculography-Based Wearable Drowsiness Detection with Alert System* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
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**LIST OF GRADUATE THESES**  
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- Tipones, R. D. (2008). *Development of a cost-effective SMS-based flood warning device* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Tolentino, K. G. (2017). *Wireless Sensor Nodes with Embedded Statistical Time Series Damage Detection Algorithm Applied in a Steel Laboratory Test Platform* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Tolentino, R. D. (1999). *Design and improvement of a local area network* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Tolentino, R. E. (2015). *Application of Euclidean-Cosine in Kinect for Mimicking Robot with One Degree of Freedom in Different Point of View* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Trio, P. P. J. B. (2011). *Enhancing an error handling routine in processing digital signal of a quad-band RF transceiver* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Tronco, M. L. S. (2011). *Type dependent board using CMOS IC type switches passive die testing of a Silicon Based System in Package Integrated Circuit* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Turingan, J. V. (2018). *Wireless microcontroller-based measuring system for Filipino maximum voluntary bite force and orofacial muscle contraction* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
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- Valiente, L. D. J. (2002). *A study on the implementation of thin-client package design engineering computing network at ATD-P of Intel Philippines in General Trias, Cavite* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.



**LIST OF GRADUATE THESES**  
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- Villaluna, J. A. (2017). *Information Security Technology for Computer Networks through Classification of Cyber-Attacks using Soft computing Algorithms* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Viray, V. M. (2019). *Data collection using unmanned aerial vehicle (UAV) or remote sensing nodes* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Wong, R. A. (2015). *Design of a Fuzzy-PID controlled Climate Control System for Mushroom Grow-House using an Arduino ATMEGA 2560* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Yabashi, K. J. (2015). *Implementation of a 4-bit Ripple Carry Full Adder of Mirror Design Style Using Synopsys Generic 90nm Technology on a Full-Custom and Semi-Custom Design* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Yao, C. B. (2015). *A Pulse Width Modulation-Fuzzy Logic Control Algorithm for a Computer Numerically-Controlled (CNC) LASER Cutting Machine* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.
- Zaño, R. Z. (2017). *Test time Optimization of Trim Analog-to-Digital Converter through Pattern Looping in UltraFLEX platform* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua University.
- Zhang, H. (2013). *Microcontroller-based Games of the Generals of Pieces Rank Detection System using Radio-frequency Identification* [Master's Thesis, MSECE]. School of Graduate Studies, Mapua Institute of Technology.