



**LIST OF GRADUATE THESES
as of October 2020
Masters in Engineering Program**

Agana, B. A. (2002). *Rotating duct pressure exchanger for energy reduction in seawater reverse osmosis system* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Alegre, J. T. (2010). *Adaptation of solid-state lighting technology in street lighting application* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Alulod, S. L. (1998). *Waste reduction assessment for a university food laboratory (Manila)* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Arquero, S. G. (1998). *Analysis of controlling the MVAR inflow to Luzon grid* [Master Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Asubar, J. T. (1998). *Maximizing slew rate of an operational amplifier* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Aydin, O. (2003). *Micro hydropower plant simulation for Mapua mechanical engineering laboratory* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Bamba, R. M. (2011). *Remote acquisition and control of fireberd 6000's bit error function by using agile VeePro graphical instrument programmer and company's virtual network* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Bartolo, E. A. A. (2010). *Deployment evaluation of daylight savings time security update on time-based applications of Delta V in different time zones* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Basas, O. G. (1998). *Preventive and corrective maintenance of PABX system installed at the ATO-Manila control tower complex* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Batang, R. C. (1999). *Evaluation of the power consumption of AMACC-QC thru demand management and power factor correction* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Bautista, A. J. C. (2008). *Fabrication of waste heat recovery dryer for laundry shops* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Bautista, D. B. (2002). *Determination of the most suitable medium for Mapua Institute of Technology and internet service provider link* [Master's Thesis, MEP]. School of Graduates Studies, Mapua Institute of Technology.

Beberino, L. J. B. (2000). *Optimization of the gas flow distribution across an electrostatic precipitator (ESP) to increase particulate collection efficiency* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Beltran, A. A. J. (2005). *Design of linear integrated op amp circuit : an alternative solution to differential equation model of RLC circuit* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Borres, R. D. (2004). *A comparative analysis of using self-instructing module vis-à-vis conventional way of teaching robotic programming software on computer integrated manufacturing* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Botacion, M. A. (2005). *Improvement of new product release process for the development and program department of Pulse Philippines, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Bustamante, R. V. (2008). *The study of key supervision for wireless sensor networks in hostile environments* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Calagui, M. J. C. (2006). *Synthesis of apatite-wollastonite bioactive glass-ceramics from bone ash* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Cana, I. F. J. (2008). *Control of carbon monoxide emissions of an stationary diesel engine through process analysis and engine modifications* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Cardiel-Aquino, M. A. G. (2001). *The effect of coin blanks upsetting features on the development of edge thickness, border, reeds and nearby design on finished coins* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Choa, E. Y. (2003). *Inventory management improvement for Fortune Integrated Textile Mills, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Convento, D. G. (2010). *PID and fuzzy logic control of a pressure loop system* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Cruz, M. C. S. (2004). *An information-systems plan for Majestic Press, Incorporated* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Dalistan, M. V. D. (2003). *An assessment of the labor management, monitoring and control practices of New Rhia Car Services, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Dela Cruz, J. P. (2006). *Design and construction of a GSM SMS-controlled parallel port-interfaced Led matrix message display* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Dela Cruz, J. P. (2004). *Determining the plant capacity on the chicken dressing operation through work measurement* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Dela Cruz, M. Na. (1998). *Setup and installation of local area network* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Enorme, N. G. (2000). *Design and test of indoor cellular system for NE Pacific Building* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Estacio, A. G. (2011). *Characterization of temperature-controlled calibration enclosure through stability and uniformity tests* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Felipe, R. C. (1998). *Elimination of over-etched leads through intensive process characterization* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Fenomeno, S. D. (1998). *Substation design: the proposed expansion of Tuguegarao substation* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Gilvaei, B. G. (2008). *Air conditioning cooling load design and equipment capacity selection for the Mapua gymnasium* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Go, H. O. (1998). *Productivity tools as applied at 4 Aces Plastic Industry* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Gumasing, M. J. J. (2004). *A system study on inventory accuracy of the data integrity and inventory control department* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Halili, M. C. H. (2000). *Implementation of a Philippine national environmental labeling program* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Huerto, D. J. I. (2009). *Assessment of Malayan Colleges Laguna for LEED for existing building: operation and maintenance certification* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Ignacio, J. M. (2010). *Model predictive control implementation for pilot-scale heat exchanger* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Indico, M. H. (2013). *Mobile Monitoring and inquiry System Using Biometric Fingerprint Scanning* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Isla, I. F. J. (2002). *Assessment of the proposed solid waste management system (EMS based) for the city of Calapan, Province of Oriental Mindoro* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Labo, J. J. (2014). *Flood Monitoring and Warning Device With Automatic Emergency Lighting* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Lapitan, C. (1999). *Determining the most efficient, accurate and economical equipment in determining the mineral content of powdered milk and liquid vitamin products of Mead Johnson Philippines* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Llacuna, F. D. G. (2003). *A study on the production efficiency improvement of the offset (printing) section at Majestic Press Incorporated* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Llana, M. J. (2010). *Physico-mechanical characterization of paving tiles from waste rubber tires* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Maguad, R. B. (1999). *Modified microprocessor standby power computation methodology for improved yield* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Manahan, J. C. (2003). *Warehouse management system improvement and determination of manpower requirement using simulation at Sanyo Philippines, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Manigbas, R. E. (2000). *Cell planning tool* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Manila, M. B. (2003). *A study on the implementation of wireless fidelity in providing mobility for the Mapua IT Center Network* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Orienza, M. C. C. (2004). *Establishment of material and labor costs standards of painting and tinsmith operations at CBA motor shop* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Palacio, R. J. R. (2010). *Modification of basic PID algorithm to address communication disruption in wireless control systems* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Quijada, C. A. (1999). *Reliability test improvement for hard disk drives* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Reyes, C. P. S. (2009). *Fabrication and characterization of polyaniline electrode doped with multi-walled carbon nanotube* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Reyes, C. N. P. (2008). *Fuzzy iterative learning control for trajectory tracking of repetitive processes* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Rivera, C. C. (1998). *Development of standard operating procedures for the treatment of DOST hazardous wastes* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Rodrigo, R. G. D. (2010). *Achieving higher production rate and elimination of sterility problem thru pre-heating control system process design for the aseptic plant of Dole Philippines, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Rosal, A. M. V. (2010). *The development of a low-cost optimal communication system trainer module using the laser diode* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Rufino, C. P. (2002). *End-to-end cycle time reduction through systems engineering conducted at Grovil Woodcraft Phils. Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Rupinta, F. C. (2010). *Production of soap from jetropha seeds* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Salvador, E. T. (1998). *Effective backup system for Telnet head office* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

San Pedro, R. T. J. (1999). *Design of Avon Cosmetics computer network* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Santiago, J. P. S. (2008). *Test platform migration of visual signal processor from T3 to T4* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Santos, J. K. C. (1999). *Utilizing harmonized automation system for lighting and air ventilation controls in the Mapua Institute of Technology* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Santoyo, C. C. M. (2005). *A traffic light controller device to improve the response time of emergency vehicles* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Senen, A. C. (2006). *Integration of industrial and domestic wastewater system of Asia transmission corporation* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

So, J. T. H. (2002). *A paper on radio network investigation* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Tang, E. B. (2002). *Noise pollution modulation and energy savings on building maintenance using variable frequency drives for Tower One Exchange Plaza* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Tapican, C. R. (2005). *A proposed business plan for recycling foamed polystyrene (FPS) waste in Caloocan City* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Vergara, E. J. M. (2010). *Implementation of activation algorithm for pet-immune home security system* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Villanueva, R. C. (2004). *A business plan of novelty items from recycled fluorescent lamps in Manila* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Villegas, C. E. U. (2003). *Innovative ways of controlling the bent pin rejects for all pinned microprocessor products for Intel Technology Philippines* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Villegas, J. S. (1999). *Streamlining the PMS business at Quezon Avenue Auto Center, Inc.* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.

Yandug, J. S. G. (2004). *A system design on the tracking and validation of the delivery and transfer of merchandise in the warehouse department* [Master's Thesis, MEP]. School of Graduate Studies, Mapua Institute of Technology.