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1. **Agosto Cruz, Glenda.** *Creation of an FDA guidance: format and content for the stability annual report*
   - Proyecto de diseño - Master in Manufacturing Competitiveness
   - REF RS424 .A36 PROJECT
   - Chairperson – José Rodríguez

2. **Airando Torres, Marcel.** *Endemic ruins: a reference in the landscape*
   - Tesis – Master of Landscape Architecture
   - REF GF91 .P8 A37 THESIS
   - Chairperson: Edmundo Colón

3. **Alfonso Castro, Jorge Francisco.** *Discharge process improvement applying lean six sigma*
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   - REF RA399 .A45 2008 PROJECT
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4. **Alvarado Mercado, Limaris.** *Effectiveness of Formulation Tanks Cleaning Using CIP Units Program Without Detergent for The Removal of Protein Based Product Residual After Their Manufacturing Use 2004*
   - Tesis – Master of Science in Manufacturing Engineering
   - REF TP 690.8 .A59 THESIS
   - Chairperson: Magaly Vega

5. **Alvarez Ibáñez, Andrés.** *Structural evaluation and seismic rehabilitation of a public school building*
   - Proyecto- Master of Engineering in Civil Engineering
   - REF TH1095 .A48 2008 PROJECT V.1
   - REF TH1095 .A48 2008 PROJECT V.2
   - Chairperson: Dr. Balhan A. Alsaadi Altayed

6. **Ayala Báez, Damaris.** *Determination of the Optimum Diafiltration Parameters for the Removal of Citrate in Recombinant Human Erythropoietin Purified Bulk*
   - Tesis – Master of Science in Manufacturing Competitiveness
   - REF RM666 .E834 A92 THESIS
   - Chairperson – Magaly Vega

7. **Balaguer Alvarez, Víctor R.** *A Survey of the State of Lean Production System in P.R.’S Manufacturing Industries*
   - Proyecto de diseño – Master in Manufacturing Competitiveness
   - REF TS 155 .B35 PROJECT
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8. **Berríos Hernández, Néstor.** *Retrofitting the Yabucoa Wastewater Treatment Plant biological treatment process*
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   - Chairperson: Alusio Pimenta

9. **Berroa Salvador, Julio César.** *Optimization of a gas turbine combustor assembly process*
   - Proyecto- Master of Engineering in Manufacturing Engineering
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   - Chairperson: Román A. López

10. **Bingen Canales, Mery M.** *Gastronomic destinations: sustainable itineraries*
    - Tesis – Master of Landscape Architecture
    - REF HT 443 .P8 B56 THESIS
    - Chairperson: Marisabel Rodríguez

11. **Bruno Alamo, Luz E.** *Minimize Cost and Waste of Reference Standard Development an Adequate Inventory Model*
    - Tesis – Master in Manufacturing Competitiveness
    - REF TS 161 .B78 THESIS
    - Chairperson: José A. Morales

12. **Buitrago Soto, Katerine.** *Release Cycle Time Reduction For Semi-Solids (Finished Products) at the Microbiology Area*
    - Proyecto de diseño – Master in Manufacturing Engineering
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    - Chairperson: Patricia Zárate

13. **Burgos Román, Danilo.** *Scrap Reduction Design Project 2006*
    - Proyecto de diseño – Master of Engineering in Manufacturing Engineering
    - REF TS 155.7 .B8 2006 PROJECT
    - Chairperson: José Aponte

14. **Cabrera Santiago, César.** *Performance Comparison of Nonlinear Controllers Using Quanser’s Ball-and-Beam Plant*
    - Tesis – Master of Science in Electrical Engineering
    - REF TJ 217.2 .C33 THESIS
    - Chairperson: Benjamin Fong Teng

15. **Canales Villareal, Arleene.** *Study of Process Analytical Technology (PAT) Implementation in Puerto Rico’s Pharmaceutical Industry.*
    - Tesis – Master of Science in Manufacturing Competitiveness
    - REF TS 183 .C35 THESIS
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16. Cárdenas Gómez, Yen Edwar. *Lean-Sigma principles applied to a medical device industry and their impact on productivity*
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17. Carrasquillo López, Rafael A. *Automatic PH Control for a Pharmaceutical Facility’s Wastewater Treatment Plant.*
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   Advisor: Nader Farahat

20. Cartagena Rubio, Hilda R. *Applying DMAIC methodology to liquid proactive delivery at re-order point (ROP)*
    Proyecto de diseño - Master of Engineering in Manufacturing Engineering
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23. **Claudio Ayala, Carlos E.** *Automating Supply Chain Material Flow in Pharmaceutical Industries using Fuzzy Logic*
   - *Tesis* – Master of Science in Manufacturing Engineering
   - REF TS 158.4 .C52 – THESIS
   - Chairperson – Alessandro Anzalone

24. **Colón González, Carlos.** *Applying Rotary Technology to the Bottle Filling Process for Solid Dosage Form in the Pharmaceuticals Industries 2005*
   - *Tesis* – Master of Science in Manufacturing Engineering
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   - Chairperson: José A. Pesante

25. **Colón Marrero, Liza Minelli.** *Improvements of technology transfer project plan using six sigma methodology*
   - *Proyecto de diseño* - Master in Manufacturing Competitiveness
   - REF T174.3 .C65 PROJECT
   - Chairperson – José A. Pesante

26. **Colón Matos, Daisy M.** *Optimizing the Supply Chain for a Solid Pharmaceutical Product in the Laboratory.*
   - *Proyecto de Diseño* – Master in Manufacturing Competitiveness
   - REF TS 155.8 C65 – PROJECT
   - Chairperson – José A. Morales

27. **Colón Villalobos, Luis M.** *Refrigeration Leak Reductions 2006*
   - *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering
   - REF TP 492.7 .C6 2006 PROJECT
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28. **Contreras Silverio, Henry.** *Sludge handling system at the Culebrinas water treatment plant*
   - *Proyecto* - Master of Engineering in Civil Engineering
   - REF TD899 .W3 C66 2008 PROJECT
   - Chairperson: Aluisio Pimenta

29. **Corraliza Roque, Sigfredo.** *Determination of the Site Soil Dynamic Response Over Sedimentary Layered Deposits in the San Juan Metropolitan Area*
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30. Cruz Cordero, Yamilda E. Material Handling Systems Evaluation in Chemical Plant 2004  
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   REF TS 180.8 C5 C7 2004 PROJECT  
   Chairperson: José A. Morales

31. Díaz, Carrol. Technology Transfer Package for a Solid Oral Dosage Form 2002  
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
   REF RS 200.D5 PROJECT  
   Chairperson: Madeline Pérez

32. Díaz Fernández, Johanna. Study on the perception of employees in performance evaluations and its impact on the productivity in the FDA regulated industry in Puerto Rico.  
   Tesis- Master of Science in Manufacturing Competitiveness  
   REF HF5549.5 .M6 D53 2009 THESIS  
   Chairperson: José Rodríguez

33. Díaz Marrero, José A. Relating Manufacturing Performance to Logistic Capabilities in Puerto Rico’s Pharmaceutical Firms  
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
   REF T 58.8 .D53 PROJECT  
   Chairperson – Alex J. Ruiz

34. Encarnación García, Luis A. Optimization of lock-out tag-out program using the six sigma methodology  
   Proyecto de diseño - Master of Engineering in Manufacturing Engineering  
   REF T55 .O6 E53 PROJECT  
   Chairperson – José A. Pesante

35. Esteves Román, Ivelisse. Cycle Time Reduction for an Emergency Room Using Lean Six Sigma  
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
   REF TS 156.6 E78 PROJECT  
   Chairperson – José A. Pesante

36. Fadul Martínez, Sonia. Subjective Perceptions and Biomechanical Analysis of Backpack Loads on 8th and 9th Grade Students in a Private School in Puerto Rico 2004  
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
   REF TS 175 .F3 PROJECT  
   Chairperson: Miriam Pabón
37. Faría Vega, Sigfredo E.  *Recreación oficiosa: respuesta civil de alto rendimiento a las necesidades locales de esparramiento*  
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   Chairperson: José lorenzo Torres

38. Farías Jiménes, Luis H.  *Site design process improvement using six sigma*  
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   REF TH375 .F37 PROJECT  
   Chairperson – Patricia Zárate

39. Febres Arroyo, Mabel.  *Impact of a High Density Grade of Microcrystalline Cellulose in XX Blend 2002*  
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   REF TP 1183 .M5 F4 THESIS  
   Chairperson: Magaly Vega

40. Fernández Rodríguez, Gira M.  *Modification of and Ester Recovery System to Process an Alcohol from a Mother Liquors Stream 2004*  
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   REF TP 156 .D6 F4 PROJECT  
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41. Figueroa, Rafael.  *Condition monitoring and fault diagnostic characterization of an environmental stress screening system*  
   Proyecto de diseño - Master of Engineering in Manufacturing Engineering  
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   Chairperson – Alessandro Anzanole

42. Flores Díaz, Maricel.  *Design of Centralized Particulate Monitoring and Alarm System for an Existent Containment Manufacturing Facility 2004*  
   Tesis – Master of Science in Manufacturing Engineering  
   REF TS 194 .F46 THESIS  
   Chairperson: Magaly Vega

43. Fowler, Sarah.  *Fragmented landscapes: reconnecting people and watersheds in northeastern Puerto Rico*  
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   REF SB470.55 .P8 F69 THESIS  
   Chairperson – Marisabel Rodríguez

44. Fuentes Burgos, Brenda L.  *Implementation of Assemble and Pack to Automate the Production Batch Record 2002*  
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
   REF TS 178.2 .F8 PROJECT  
   Chairperson: Rafael Cruz
45. García Cartagena, José Luis. *Introduction of New Technology to Bond Cores 2006*
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46. García Rivera, Luis S. *Effects of Flame Treatment on Polyethylene Voltees Used in Induction Seal Process 2005*
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47. Garnsey Hernández, Christie S. *Alternative use for biosolids generated by a biotechnology plant in Puerto Rico*
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Chairperson: José Alberto Morales

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49. Géigel, Arturo. *Combining phones, syllable and phonological features in speech recognition using neural networks*
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50. Giuliani Ortiz, Myreli. *Bulk delivery cycle time reduction*
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52. González Candelario, Oscar E. Feasability of the change from high performance liquid chromatography (HPLC) to ultra performance liquid chromatography (UPLC) for the analytical dissolution method for one pharmaceutical product
   Proyecto de diseño - Master in Manufacturing Competitiveness
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   Chairperson – Carlos Pons

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   REF RS 199 .G6 PROJECT
   Chairperson: Bernardo Deschapelles

55. González Torres, Carlos Rafael. Materials waste reduction in finished goods of a semi-solid over the counter (OTC) manufacturing company using lean tools
   Proyecto de diseño - Master in Manufacturing Competitiveness
   REF TD897.847 .G66 PROJECT
   Chairperson: Patricia Zárate

   Tesis – Master of Science in Civil Engineering
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   Chairperson: Magaly Vega

57. Gracia Rosado, Carmen M. Capacity Planning for a Pharmaceutical Quality Control Laboratory
   Proyecto de diseño – Master in Manufacturing Competitiveness
   REF T 175.5 .G72 PROJECT
   Chairperson: Carlos González

58. Hayes Rodríguez, Francis J. Manufacturing Equipment Requirements For a Solid Dosage Pharmaceutical Plant 2003
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   Chairperson: Bernardo Deschapelles
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60. **Hernández Irizarry, César A.** Supervisory control and data acquisition system for a packaging line in a pharmaceutical company  
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61. **Hoyos, Celestino de.** Process automation using a programmable logic controller  
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62. **Jackson, Iván.** Contribution to the analysis of barrettes in older alluvial deposits of San Juan  
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63. **Jiménez Ramos, Víctor.** Extending the Linux firewall for high performance networks  
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64. **Kiragiannis Collazo, Georgios A.** Towards a Model of Adaptive Prediction in Software Engineering  
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65. **Koett Rosas, Rita E.** Impact of the Talc Concentration Over the Properties of the Gum Base Plastograph Results 2005  
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66. **Lara, Ingrid.** Supplies Flow Optimization Applying Design Excellence  
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67. **Lausell, Emiliano.** *The Psychophysical and Biomechanical Effects of Replacing the Sagital Handling of Loads with a Lateral handling of Loads Through the Use of Ergonomic Tools*
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   - REF TS 180.5 .L28 THESIS
   - Chairperson – Miriam Pabón

68. **León Bonilla, Nilda G.** *Waste reduction in a blister packaging line applying six sigma methodology*
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   - REF HD9665.5 .L46 PROJECT
   - Chairperson Miriam Pabón

69. **López Laviena, Luis R.** *The Impact of the Port Americas in the Pharmaceutical Industry 2003*
   - *Tesis* – Master of Science in Manufacturing Engineering
   - REF HE 414 .P8 P8 THESIS
   - Chairperson: Carlos González

70. **López Otero, José Francisco.** *Automation of Drinking Water Production System for Small Conventional Process Plants in Puerto 2002*
   - *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering
   - REF TD 434 .L6 PROJECT
   - Chairperson: Carlos González

71. **López Pérez, Maritza.** *Tablet Press Facility Design Improvement and Start-Up 2004*
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   - REF TP 159 .C57 L6 PROJECT
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72. **López Ríos, Wilberito** *Process and instrumentation Design of a Ventilation and Air Conditioner System for Improvements in Pharmaceutical Rooms 2005*
   - *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering
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   - Chairperson: Carlos González

73. **López Rivera, Yamir M.** *Development of a Blending Process For a Low Dose New Drug Candidate Using a Bin Blender System And Evaluation of Physicochemical Properties of Product When Adding a Milling/Deagglomeration Step 2006*
   - *Tesis* – Master of Science in Manufacturing Competitiveness
   - REF RS 199.5 .L6 2006 THESIS
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74. Lozada Ortiz, José F. To Design a business Continuity Planning Guidelines for Pharmaceutical Manufacturing organizations Regulated by Food and Drugs Administration 2005  
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75. Maldonado Pérez, Gloryvee. Evaluation of near infrared technology utilization and applications in Puerto Rico pharmaceutical industry  
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   Proyecto de diseño – Master of Engineering in Manufacturing Engineering  
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77. Marte Rolón, Julia I. Increase Production Capacity in Tablet Compressing Machine 2005  
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   REF RS 201 .T2 M2 PROJECT  
   Chairperson: Miriam Pabón

78. Martínez, Silvia I. Practice of the OEE Indicator as a Tool to Measure and Improve Manufacturing Performance at Pharmaceutical Industries in Puerto Rico.  
   Tesis – Master of Science in Manufacturing Engineering  
   REF TS 192. M37 THESIS  
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79. Martínez Quiles, Idellyse. An Examination of the Single Facility Location Problem; Three Method Comparison 2005  
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   Chairperson: Alex J. Ruiz

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   Chairperson: Alex J. Ruiz

81. Matos Bonilla, Heilly R. Implementation of near infrared spectroscopy for solvent recovery in line analysis using the six sigma methodology
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   REF TS 198.3 .G5 M4 2006 THESIS
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83. Mercado Miranda, Juan R. Implementation of an Environmental Monitoring System EMS Enhancement Module
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84. Molina del Río, Sandra. A study of the individual leadership and its relation with individual job performance within the quality department in a pharmaceutical company
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85. Montesinos, Lilian. Split Tablet Reduction in Product Z
   Proyecto de Diseño – Master of Engineering in Manufacturing Engineering
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   Chairperson – Patricia Zárate

86. Morales Cuevas, Lourdes M. La Plata Nuevo Water Treatment Plant Optimization
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89. **Morales Morales, Leandro.** *Beamforming Algorithm and Processor Development for Smart Antenna in Wireless Communications*
   - Tesis – Master of Science in Electrical Engineering
   - REF TK 5103.452 M6 2006 THESIS
   - Chairperson – Viktor Zaharov

90. **Morales Padilla, Arleen M.** *Requirements for a Good Supplier Qualification Program 2006*
   - Tesis – Master of Science in Manufacturing Competitiveness
   - REF TS 156.6 .M6 2006 THESIS
   - Chairperson: José A. Morales

91. **Negrón de Jesus, Israel.** *Material Acceptance Process Lead Time Reduction 2006*
   - Proyecto de diseño – Master of Engineering in Manufacturing Engineering
   - REF TS 156.8 . N4 PROJECT
   - Chairperson: José Pesante

92. **Nieves Viera, Melitza.** *Transfer of Pharmaceutical Product in Encapsulation Equipment 2004*
   - Proyecto de diseño – Master in Manufacturing Competitiveness
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   - Chairperson: José A. Morales

93. **Olaya, Julio César.** *Clustering Hybrids: Genetic Algorithm Applied to K-Means and Fuzzy C-Means*
   - Tesis – Master of Science in Computer Science
   - REF QA 76.623 .53 THESIS
   - Chairperson – Alfredo Cruz

94. **Olazagasti Ledee, Suanilda.** *Hazard Analysis and Critical Control Point in Food Manufacturing 2003*
   - Proyecto de diseño – Master in Manufacturing Competitiveness
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95. **Ortiz, Amaliz De L.** *ISO 9001: 2000 internal quality audits: procedural vs process audit strategy/approach gap analysis*
   - Proyecto de diseño - Master in Manufacturing Competitiveness
   - REF HD9720.9 . A1 07 PROJECT
   - Chairperson – José Rodríguez

96. **Ortiz Perez, Jegsal Rubén.** *Full-Scale Test of Hallow-Core Slabs Subject to Flexural Stress and a Study of Instantaneous Deflections 2006*
   - Proyecto de diseño – Master of Engineering in Civil Engineering
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   Proyecto de diseño – Master in Manufacturing Competitiveness
   REF TA 167 .07 PROJECT
   Chairperson: Miriam Pabón

98. Ortiz Rodriguez, Marieli. *Compression Stage Optimization for Product X through the Evaluation of Compression Tooling and Compression Parameters* 2006
   Proyecto de diseño – Master of Engineering in Manufacturing Engineering
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100. Padilla Santisteban, Brenda Eunice. *Evaluation of heating, ventilating and air conditioning (HVAC) systems compliance with current validation standards* 2009
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    Chairperson: Carlos González
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105. Pérez Cruz, Elmy Samuel. *Upgrade of a tablet manufacturing automated system*  
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106. Pérez Ghigliotty, María A. *Supplier Certification Program for Electronics, Inc.* 2002  
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109. Pomales Betancourt, Norma. *Warehouse Layout Design for a Distribution Center*  
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111. Quiñones Maymí, Carlos J. *Determination of Load Capacity of a Reinforced Concrete Slab Bridge Through Load Testing* 2004  
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112. **Quiñones Pellot, Sulley M.** Time reduction between triage and initial evaluation by general physician using lean six sigma  
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113. **Ramos Aponte, Eddie C.** Lean six sigma application on a high mix/low volume electronic company  
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116. **Ramos Torres, Syndia.** Improvement in the Coating Area 2005  
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118. **Reyes Ruiz, Mirta M.** Design of Suspension Transfer System 2002  
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119. **Reyes Santos, Lesbia.** Transition of the Forecast Demand to Kanban Process in a Pharmaceutical Industry.  
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120. **Rios Santos, Mayra M.** *Study of Cellulose Acetate, Acetyl Content and Membrane Weight on the Release Rate of an Oral Osmotic System*
   
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121. **Rivera, Elsa M.** *Electronic Batch Record Implementation Success Rate in Puerto Rico’s Pharmaceutical Finished Goods Manufacturing Operations.*
   
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   Chairperson: Alessandro Anzalone

122. **Rivera Cuevas, Marian.** *Sanitization Methods Comparison for Pharmaceutical Purified Water Systems 2005*
   
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   Chairperson: José A. Morales

123. **Rivera Estela, Waleska.** *Automation for the Drinking Water Industry 2002*
   
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   Chairperson: Rafael Cruz

124. **Rivera Falcón, Patricia.** *Modification of Microfiltration and Chromatography Systems to Concentrate and Recovered Cells in a Biotechnology Process 2005*
   
   *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering  
   REF TP 156 .C5 R5 PROJECT  
   Chairperson: José A. Morales

125. **Rivera Fazzi, Angel.** *Design of an Incentive System that Supports the Lean Manufacturing Initiatives in the Textile Industry in Puerto Rico*
   
   *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering  
   REF TS 1449 .R58 PROJECT  
   Chairperson: Alex J. Ruiz

126. **Rivera Martínez, Orlando.** *Ergonomic Evaluation of Double Handle Tools: An Electromyography Study 2006*
   
   *Proyecto de diseño* – Master in Manufacturing Competitiveness  
   REF TS 175 .R5 2006 PROJECT  
   Chairperson: Sergio Carporali

127. **Rivera Martínez, Rafael O.** *Incidence of thermoduric, thermophilic and coliform bacteria in raw milk found in cooling tank at the dairy farm in Puerto Rico*
   
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   REF SF257 .R58 2009 THESIS  
   Chairperson: Rafael Nieves
   Tesis – Master of Science in Civil Engineering
   REF TA 600 .P6 R5 THESIS
   Chairperson: Bernardo Deschapelles

129. Rodríguez, Juan M. Implementation of New Real-Time Particle Monitoring System in a Parenterals Aseptic Area
   Proyecto de diseño – Master in Manufacturing Engineering
   REF TP 248.25 .M65 R63 PROJECT
   Chairperson: José Rodríguez

130. Rodríguez Camacho, Giovanni. Optimization of a bread making process applying lean manufacturing
   Proyecto- Master in Manufacturing Competitiveness
   REF HD9058 .B74 R6 PROJECT
   Chairperson Patricia Zárate

131. Rodríguez Castellano, Yamil I. Design, Analysis and Implementation of Parallel Cyclic Convolution Algorithms Based on Pseudocirculant Matrices
   Tesis – Master of Science in Electrical Engineering
   REF TK 5102.9 .R63 THESIS
   Chairperson: Marvi Texeira

132. Rodríguez González, Omar R. Study of the effects of Plasma Source Ion Nitriding on ASTM A615 Steel Reinforcement Bars
   Tesis – Master of Science in Civil Engineering
   REF TA 683.42 .R63 THESIS
   Chairperson: Alberto Guzmán

   Proyecto de diseño – Master in Manufacturing Competitiveness
   REF TS 156 .R64 2006 PROJECT
   Chairperson: Alex Ruiz

134. Rodríguez López, Luz E. Improvement of Encapsulation Manufacturing Process Through the Reduction of the Sulfate Impurity 2005
   Proyecto de diseño – Master in Manufacturing Competitiveness
   REF TS 198 .C33 R6 PROJECT
   Chairperson: José A. Morales

135. Rodríguez Meléndez, Ysandra Denise. Health care mixing parameters control improvement
    Proyecto- Master of Engineering in Manufacturing Engineering
    REF HD9970.5 .C672 R63 PROJECT
Chairperson: Román López

136. Rosado, William. Lean manufacturing application in a pharmaceutical finish product laboratory
   Proyecto- Master in Manufacturing Competitiveness
   REF RS189 .R67 PROJECT
   Chairperson: José A. Morales

137. Rosado González, Itza. Process improvement in the chemistry area of a reference laboratory using lean six sigma
   Proyecto- Master in Manufacturing Competitiveness
   REF RB36.3 .Q34 R67 PROJECT
   Chairperson: José A. Morales

   Proyecto de diseño – Master of Engineering in Manufacturing Engineering
   REF TS 181 .R6 2006 PROJECT
   Chairperson: Alessandro Anzalone

139. Sánchez Luperón, Wilma Y. Simplifying Documentation Flow in the Production Areas: Electronic Records Perspective
   Tesis – Master of Science in Manufacturing Competitiveness
   REF TS 178.2 .S25 THESIS
   Chairperson: José A. Morales

140. Sánchez Mieles, Aimee. Photostability Study in New Drug Product 2004
   Tesis – Master of Science in Manufacturing Competitiveness
   REF RS 424 .S25 THESIS
   Chairperson: Magaly Vega

141. Sánchez Nieves, Roberto. Arroyo’s costal revitalization project
   Tesis – Master of Landscape Architecture
   REF NA9157 .A77 S26 THESIS
   Chairperson: Marisabel Rodríguez

142. Sánchez Paredes, Maureen J. Assessment on Continuous Improvement Initiatives Adopted within the Manufacturing Industry in Puerto Rico and the Inclusion of Suppliers as a Strategy to Succeed
   Tesis – Master of Science in Manufacturing Engineering
   REF TS 176 .S25 THESIS
   Chairperson: José O. Rivera

   Proyecto de diseño – Master of Science in Civil Engineering
   REF TA 710.5 .S2 2005 PROJECT
   Chairperson: Omayra Collazo
144. **Santiago, Pedro I.** *An Optimal Batch Size Model for the Pharmaceutical Industry, with Products Campaigns, Set-up within and between Campaigns, Release Time and Release Cost.*
   - Thesis – Master of Science in Manufacturing Engineering
   - REF TS 167.S35 THESIS
   - Chairperson: Alex J. Ruiz Torres

   - Thesis – Master of Science in Manufacturing Competitiveness
   - REF TK 4660 .S2 THESIS
   - Chairperson: José Pesante

146. **Santiago Nieves, Carlos R.** *Application of Six Sigma Tools During Validation of a Packaging Line 2003*
   - Proyecto de diseño – Master in Manufacturing Competitiveness
   - REF TS 196.4 .S2 PROJECT
   - Chairperson: José A. Morales

147. **Seda Toro, Lissette.** *Printed Circuit Board Assembly Quality Process Improvement*
   - Proyecto de diseño – Master in Manufacturing Engineering
   - REF TS 180 .S43 PROJECT
   - Chairperson: José A. Morales

148. **Semidei Camacho, María E.** *Development of a Project Management Methodology for a Financial Office 2006*
   - Proyecto de diseño – Master of Engineering in Manufacturing Engineering
   - REF T 56.8 .S4 2006 PROJECT
   - Chairperson: Carlos González

149. **Sepúlveda, Josefina.** *Analysis of the Relationship Between Organizational Culture and Service Inter Groups in the Quality Department of a Biotechnology Company*
   - Thesis – Master of Science in Manufacturing Competitiveness
   - REF HD 58.7 .S46 THESIS
   - Chairperson: Carlos Pons

150. **Serrano Bernacet, José.** *Cycle time improvement in QA final batch record release*
   - Proyecto de diseño - Master in Manufacturing Competitiveness
   - REF TS156.8|B.S47 PROJECT
   - Chairperson – José A. Pesante
151. **Silva Figueroa, Pedro O.** Cost Reduction and Process Optimization in the Engineering Calibration Department Applying Demings PDCA Tool
   *Proyecto de diseño* – Master in Manufacturing Engineering
   REF TS 167 .S55 PROJECT
   Chairperson: José A. Morales

152. **Soto Rodríguez, César A.** General Procedure for Rectangular Thin Plate Bending Finite Element Method with 25 DOF and 24 DOF 2003
   *Tesis* – Master of Science in Civil Engineering
   REF TA 890 .S6 THEsis REF TA890 .S6 THEsis CD
   Chairperson: Bernardo Deschapelles

153. **Soto Rosa Noé.** Plate Bending Analysis using a New Finite Element with 17 DOF. Including 5 Non-Nodal.
   *Tesis* – Master of Science in Civil Engineering
   REF TA 418 .S68 THEsis
   Chairperson – Bernardo Deschapelles

154. **Sotomayor Cerezo, Beliza.** Evaluation and Replacement Plan of Tank’s Level Transmitters 2005
   *Proyecto de diseño* – Master of Engineering in Manufacturing Engineering
   REF TP 205 .S85 S6 PROJECT
   Chairperson: Miriam Pabón

155. **Suárez Alvarado, Luis F.** Comparison of Bridge Design Per AASHTO LFD Using the HS 30 Live Load Model and ASSHTO LRFD Using the HL 93 Live Load Model 2005
   *Proyecto de diseño* – Master of Science in Civil Engineering
   REF TG 310 .S8 PROJECT
   Chairperson: Leonel Almánzar

156. **Suárez Figueroa, Daniel.** Plane Stress Analysis Using the Finite Element Method Base on a Rectangular Element with 34 Degrees of Freedom, 8 Nadal and 26 Non-Nodal 2003
   *Tesis* – Master of Science in Civil Engineering
   REF TA 347 .F5 S8 THEsis
   Chairperson: Bernardo Deschapelles

157. **Suero Inoa, Rafael Andrés.** Retrofitting of Reinforced Concrete Structure Using Carbon Fiber Reinforced Polymer, Experimental and Analytical Study
   *Tesis*: Master of Science in Civil Engineering
   REF TA 455 .R58 S8 2004 THEsis
   Chairperson: Balhan Altayeb

158. **Torres Bonilla, Alex E.** Lean implementation for the endoscoposcopic [sic] vessel harvesting device (EVH) manufacturing line
159. **Torres Plaza, Edgar.** *Innovative Improvement to Capsule-Filling Process Through Waste Reduction 2002*
   - Proyecto de diseño - Master of Engineering in Manufacturing Engineering
   - REF TS 198 .C33 T6 PROJECT
   - Chairperson: Carlos González

160. **Vagnetti, Paul J.** *Steel beam-to-column moment connection: comparative studies of different types of moment connections*
   - Tesis - Master of Science in Civil Engineering
   - REF TA660 .J64 2010 THESIS
   - Chairperson: Alberto Guzmán

161. **Valle Rivera, Blanca D. del.** *Implementation of lean six sigma to improve clinical laboratory service*
   - Proyecto de diseño - Master in Manufacturing Competitiveness
   - REF RB36.3 .Q34 |BV3 PROJECT
   - Chairperson: Carlos González

162. **Vargus Quiles, Carlos Tomá.** *Bottle-Closure System Alternatives for Compliant, Child Resistant and Senior Friendly Packaging 2006*
   - Tesis – Master of Science in Manufacturing Engineering
   - REF TS 198 .C46 V3 2005 THESIS
   - Chairperson: Rosamari Feliú

163. **Veguilla de Jesús, William.** *Implementation of Visual Control System in a Manual Assembly Line of Medical Devices 2006*
   - Proyecto de diseño – Master in Manufacturing Competitiveness
   - REF TS 155 .V4 2006 PROJECT
   - Chairperson: Carlos González

164. **Vélez Ríos, Damaris.** *Application of Six Sigma Tools to Improve a Resistance Spot Welding Manufacturing Process*
   - Proyecto de diseño – Master in Manufacturing Engineering
   - REF TA 156.6 .V45 PROJECT
   - Chairperson: José A. Pesante

165. **Viana Rosado, Mildred.** *Automated Tracking System to Follow up Open Regulatory Action Plans 2004*
   - Proyecto de diseño: Manufacturing Competitiveness
   - REF TS 156.2 .V5 PROJECT
   - Chairperson: José A. Morales
166. **Vicens Otero, Juan A. State of Site Automation Survey for Oral Dosage Manufacturing Plants in Puerto Rico**  
*Thesis – Master of Science in Manufacturing Engineering*  
REF TS 158.6 .V54 THESIS  
Chairperson – Alessandro Anzalone

167. **Vidró Martínez, Keyla J. Water Recycle and Reuse System for Confectionary Industry 2004**  
*Thesis: Master of Science in Manufacturing Competitiveness*  
REF TD 429 .V5 THESIS  
Chairperson: José A. Morales

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*por Giselle M. Garriga y Dellymar B. Bernal*

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