

ALBERTO MARQUEZ, PhD, P.E.

ASSOCIATE PROFESSOR
DEPARTMENT OF INDUSTRIAL ENGINEERING
LAMAR UNIVERSITY

ROOM

Beaumont, April 1, 2016 August 31, 2016

ch and Development for Port of Beaumont

FASTLANE GRANT 2016

\$4,975. Sponsor: Port of Beaumont, April 1, 2016 August 31, 2016

Benefit Cost Analysis Research and Developm

PI: Victor Zaloom with Co-

\$3,753. Sponsor: Port of

Beaumont, June 1, 2015

3. Ayberk Karakavuz, Berna Er

Presentations

Refereed

1. Long Y., **Marquez, A.** "Benchmarking Required Employability Skills Using Quantitative Analysis of Textual Data," in Proceeding of the 2021 IISE Engineering Lean and Six Sigma Conference, 2021.
2. Robert Kelley Bradley, James C Curry, Victor Zaloom, Brian Craig, Berna Eren Tokgoz, **Alberto Marquez**, Yueqing Li, Maryam J co k k "Y gj cpi \ j w."Z k { w N k w . " c p f " C e { w M c p g t k 0 0 T g u a l t s o f t h e F i r s t S i x Y e a r s o f a 2 + 2 O n l i n e B S I n d u s t r i a l E n g i n e e r i n g D e g r e e R e v j y c { ö P r o c . o f A m e r i c a n S o c i e t y f o r E n g i n e e r i n g E d u c a t i o n V i r t u a l A n n u a l C o n f e r e n c e , J u l y 2 0 2 1 .
3. Marquez A, Zaloom, V. (

9. Marquez, A. *State based descriptors of manufacturing flexibility* Institute of Industrial Engineers Conference and Expo 2015. Nashville, TN. May-June 2015.
10. *Industrial Engineering in the XXI* Institute of Industrial Engineers Conference and Expo 2015. Nashville, TN. May-June 2015.
11. Brake, Sehin, Wade, Valles, Marquez, Jimenez. (2020). *Cross-cultural engineering skill development at an international summer boot camp*. 127th ASEE Annual Conference. June 21-24 2020.
12. Weihang Zhu, Alberto Marquez, Julia Yoo,

Non-refereed presentations and lectures by invitation

1. Marquez A. *Simulation and Supply Chain* as part of the Building Bridges for New Innovators in Engineering (BBNIE) project by Texas International Education Consortium / Texas State / Lamar University and Universidad Politecnica de Guanajuato. San Marcos, Texas. May 2019.
2. Marquez, A. (2017, October). *Intelligence for Industry 4.0: Heuristic Algorithms*.

TEACHING

SERVICE & PROFESSIONAL DEVELOPMENT

Affiliations

Institute for Operations Research and Management Science
Institute of Industrial Engineers
Systems Dynamics Society

Professional Service

Faculty advisor for Lamar University Student Chapter of the Society of Hispanic Professional Engineers (2008- 2018)
President of Section 1420 of the American Society for Quality (2011-2012)
Secretary of Section 1420 of the American Society for Quality (2012-2019)

Peer-reviewed journals reviewer:

- International Journal of Production Research
- IEEE Transactions on Systems Man and Cybernetics
- IEEE Transactions on Automation Science and Engineering

Text book publisher reviewer

- John Wiley and sons

University Service

Undergraduate Curriculum Council (Lamar University 2017-2022)
Director of the Master of Engineering Management program (Lamar University 2008-2022). Achievement: Growing the program from zero to over 50 students the largest graduate program in the COE
Director of the B. Sc. Industrial Technology Program (2014-2015)
Industrial Engineering Department representative at the Lamar University Faculty

INDUSTRIAL & CONSULTING EXPERIENCE

Industry Employment History

- 2022 *Academic external consultant*
Confidential Port.
Benefit-Cost Analysis of the docks 40/41 rehabilitation of a Port in Houston extended metro area, construction of 1500 feet of expansion and rehabilitation of staging tracks and wye tracks, and 200-yard staging tracks, as part of the application to the Port Infrastructure Development Program 2022 (PIDP) Grant Program of the Maritime Administration of the Department of Transportation
- 2022 *Academic external consultant*
Port of Port Arthur
Benefit-Cost Analysis of the Stabilization of 23.7 Acre Lands with Building Renovation Project near the Port of Port Arthur, as part of the application to the Port Infrastructure Development Program (PIDP) Grant Program of the Department of Transportation 2022. The Port of Port Arthur was awarded \$13.6 million
- 2022 *Academic external consultant*
Port of Beaumont
2022 Port of Infrastructure Development Program Application. Beaumont-Houston Container on Barge Infrastructure
- 2022

- 2021 *Academic external consultant*
 Port of Port Arthur. Stabilization of 30.5 Acre Lands with Building Renovation Project near the Port of Port Arthur, as part of the application to the Port Infrastructure Development Program (PIDP) Grant Program of the Department of Transportation 2021 Department of Transportation. Economic impact of increased capacity and update in logistic facilities. The port of Port Arthur received a \$9.7 million investment grant
- 2020 *Academic external consultant*
 Port of Port Arthur Benefit Cost Analysis of the Rebuild and Expansion of Transit Shed 1 project at the Port of Port Arthur . Analysis Port Infrastructure Development Program of the Department of Transportation. Economic impact of increased capacity and update in logistic facilities. \$13.9 million investment
- 2015-2016 *Academic external consultant*
 Port of Beaumont. Economic impact of increased capacity and update in logistic facilities. 56 million investment
- 2008 *Academic external consultant.*
 Confidential Paper Mill. Wood procurement forecasting and optimization model. Texas.
- 2006 *Academic external consultant.*
 Instituto Federal Electoral. Data analysis and structured information for process coordinators. Mexico D.F.
- 2005 *Academic external consultant.*
 Grupo Modelo. Advanced modeling, data analysis and decision making for better business analysis. Mexico D.F.
- 1999-2000 *Senior Consultant.*
 IBM Canada Ltd. Supply Chain Implementation Practice. Certified in the Implementation of state-of-the-art Advanced Planning Systems APS. (i2 Technologies software), including Demand Planner, Supply Chain Planner and Factory planner. In-house Supply Chain Modeling and Planning project for small and medium systems distribution for Canada and the Caribbean
- 1998-1999 *Industrial Engineer*
 Motorola Inc. (Phoenix, Arizona). Semiconductor Components Group.
(Contracted through Arizona State University).
 Research project on systems integration for decision support systems to produc0 g0 G(A)-7 115.22 Tm0 g0 G[]TJETQq171.02

