James Curry

Dept Of Industrial Engineering
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Education

1/96- 12/03	PhD Industrial Engineering Texas A&M University
1/93-5/96	MS Operations Research and Industrial Engineering University of Texas at Austin
9/89-12/92	BS Mechanical Engineering University of Texas at Austin

Areas of Interest

Optimization
Data Mining
Logistics and Scheduling
Supply Chain Management
Software Development
Natural Language Generation

Academic Experience

Lamar University Department of Industrial Engineering
Department Chair (7/22 – Present), Associate Professor (9/12 – Present), Assistant Professor (8/06- 9/12)

Teaching at Lamar:

Taught courses to undergraduate engineering, undergraduate technology and graduate students. Maintained high student evaluations in all courses. Course titles include:

Production and Inventory Control*
Operations Research*
Operations Research II
Simulation*
Computer Application*
Applied Programming
User Interface
Introduction to Engineering
Introduction to Industrial Engineering*
Text Engineering
Enterprise Business Intelligence
Data mining with SAS and MySQL
Engineering Database

Funded Research Projects at Lamar University:

PI or CO-PI on 10 funded projects. The total value of these projects is over $1,500,000.

1. Gulf Research Program, National Academies of Sciences, Engineering, and Medicine, Safer Offshore Energy Systems Grants 4, Washington, DC, Developing an Integrated Offshore Energy Industry Safety Culture Evaluation and Improvement Toolbox, K. McSweeney – Project Director (PI) with Key Personnel: S. Arendt, B. Craig, J. Curry, W. Zhu, and J. Pray. Submitted April, 2019 for January 2020 – August 2022. Total Budget Requested $1,439,830. Lamar University's Budget $204,059. With the American Bureau of Shipping (Lead Organization). Funded, January 2020.

2. Scholarships, Career Mentoring, Outreach and Advisement, Professional Societies and Engineering Learning Community (SCOPE) NSF S-STEM (Scholarship for STEM) grant. PI Dr. Zhu, CO-PIs: Dr. Curry, Dr. Craig, Dr. Zhou and Dr. Chu (September 1, 2015 to August 31, 2020) $625,300.

Prototype Leading IndBT/F1 9.902.63ETQq0.00000912 0 61QqW* nBT/F1-( )]Tf1 0 0 1 417.79 543.07

3. Development of the ASTM Standard for Injury and Illness Data Collection and Reporting and the ASTM Standard for Near Miss Collection and Reporting, Ship Operations Cooperative Program (SOCP), Woodinville, Washington, B. Craig – Principal Investigator with Co-PI's: James Curry and Weihang Zhu (2014 – 2016) $50,000.

4.

2. Chinar Potnis (Spring 2016). Cleaning Large Data Sets with a Coordinated Machine Learning and Manual Approach.
3. Naif AlShammari (Fall 2014). Refinery Production Planning Considering Nervousness.
4. Fatemeh Hosseinzadehdastak (Fall 2014). Developing Effective Cross Tabs to Visualize Data Sets.
5. Majed Al-Bokhari (Summer 2014). A Data to Text Framework for Describing Regression Models: An Optimization Approach for Content Determination.
6. Lonnie Turpin (Spring 2014). Using Natural Language Generation to Document Portfolio Performance: An Optimization Approach for Content Determination.
7. Pavan Mhasavekar (Summer 2013). Inventory Metrics for Lead Time Focused Manufacturing.
8. Carol Schulte (Spring 2008). A Heuristic Algorithm for Scheduling Hazardous Waste Incinerators (Co-Advised with Dr. Victor Zaloom).

Master of Engineering Science Thesis Students

1. Nikita Lis (Fall 2019). Delphi-SWOT strategic planning for the Industrial Engineering Department at Lamar University using data analytics.
2. Hrishikesh Wagh (2018). Data visualization and KPI's using speech recognition.
3. Datta Tele (2017). Text Classification and Cleaning of Near Miss Records.
4. Omkar Dhok (2017). Reports to Rank Healthcare Services Providers.
5. Kallul Paul (2012). Classifying Records Using Text Mining
6.

Industry Experience

Vector SCM (Logistic Provider for GM)
Senior Engineer (2/04-8/06)

Conducted studies to locate distribution centers, remote sequencing/subassembly centers, and intercontinental warehouse facilities for GM North America, GM AP, China, and GM Europe. Study results guided the procurement of these facilities. (1/05-7/06)

Designed and implemented cost saving initiatives (routing changes and cube improvements) for the GM ocean transportation network. (1/06 – 8/06)

Developed and implemented an effective software tool to identify milkruns and truckloads that can be routed at a lower cost via a consolidation center. This software is periodically used by eight engineers to find cost saving opportunities. (7/05-8/05)

Developed an Access based program for redesigning GM routes from Mexico to assembly plants in the United States and Canada. Primary program features are cube calculation, route display using PC*Miler Mapping, automated bid template creation, and a flat file interface to MaxLoad for load construction. The program allows engineers to quickly build effective routes. (11/05 - 1/06).

Designed and implemented route changes for GM Mexico. (3/05-4/05)

Improved global ocean freight bids (container and vehicle) by developing reports, business processes, and databases. (2/04-1/05)

IBM Global Services - Supply Chain Services
Associate Consultant (11/98-11/01)

Developed reports for i2 Transportation Manager for the retail industry. The reports described carrier performance, network performance, and operational status of freight. (6/01-9/01)

Developed functional and technical specifications for a custom scheduling system for IBM Business Recovery Services. The proposed system would schedule over 5000 resources. The proposal was approved for funding. (02/01-11/01)

Implemented i2 Transportation Manager at a major third party logistics provider (UPS). Primary responsibilities were master operating procedure development, reports development, tariff development, post implementation go live support, and testing. (11/99- 1/01)

Assisted in developing an intellectual capital database for the supply chain management practice. (10/99-11/99)

Implemented SynQuest software for supply chain management, scheduling, and manufacturing execution at client sites in the printing industry. Primary responsibilities were optimization, process documentation, and end user training. (3/99-10/99)

Texas A&M University - Computer Aided Lab
Research Assistant (1/96-11/98)

Manufacturing Developed production and inventory control models for an aircraft remanufacturing

Analyzed large data using statistical techniques (regression and time series analysis).

Developed three major grant proposals with two receiving funding.

Developed databases.

University of Texas at Austin
Teaching Assistant for Engineering Economic Analysis (1/93-5/93)

Computer Skills

Data Analysis: R, SAS, SPSS, Rapid Miner
OR: CPLEX, Arena, At Risk
Database: SQL Server, Or2ee .