

# ACYUT KANERIA

Instructor

Department of Industrial and Systems Engineering,  
Lamar University, Beaumont, TX 77710-0032

Lucas Engineering: #148

Office: (409) 880-8945

Email: [akaneria@lamar.edu](mailto:akaneria@lamar.edu)

## EDUCATION

Doctoral of Engineering in Industrial and Systems Engineering Spring '17 – Present

*Lamar University, Beaumont, Texas*

Master of Engineering in Industrial Engineering 2014 – 2016

*Lamar University Beaumont, Texas*

Bachelor of Engineering in Mechanical Engineering 2009 – 2013

*Gujarat Technological University, India*

## AREAS OF INTEREST

- Computer Aided Designing
- Production and Manufacturing
- Optimization
- Reliability and Maintenance

## ACADEMIC EXPERIENCE

Department of Industrial and Systems Engineering, Lamar University, Beaumont, Texas

Instructor

Jan 2019 – Present

- Engineering Materials and Manufacturing Processes
- Engineering Materials and Manufacturing Processes Labs

- Engineering Economics
- Computer Integrated Manufacturing Systems

## PROFESSIONAL WORK EXPERIENCE

Instructor

Jan 2019 – Present

*Department of Industrial and Systems Engineering, Lamar University, Beaumont, Texas*

Design and execute curriculum by safely instructing Engineering Manufacturing Class using excellent verbal communications and one-to-one troubleshooting.

Instruct students by holding workshops on CNC numerical control programming, safe operation of CNC vertical milling machine, engine lathes, programmable multifunction robots, mills, drill presses, grinders, and other manufacturing equipment; efforts lead to an overall enhanced department performance.

Design course materials including syllabi, homework assignments, project rubric, exams, modify curricula and deliver lectures for Engineering Courses.

Graduate Assistant

Jan 2018 – May 2019

*Department of Industrial Engineering, Lamar University, Beaumont, Texas*

Guiding and supervising undergraduate and graduate students on Autodesk Fusion 360 in the Computer Integrated Manufacturing Lab, and on Arena in the Simulation Lab.

Conducting and instructing undergraduate students on Autodesk Fusion 360 for online Computer Integrated Manufacturing Lab sessions.

Instructed students and assisted lab instructor to safely work on manufacturing lab projects.

Research Assistant

Jan 2017 – Jan 2018

*Department of Industrial Engineering, Lamar University, Beaumont, Texas*

Conducted research and experiment using STISIM Driving Simulator to improvise road traffic safety and learn driver's behavior under various driving scenarios.

Assisting the faculty member (Dr. Yueqing Li) in a variety of non-administrative tasks which may include preparing and reviewing resources, equipment, materials for the research, documenting results, etc. in support of the research activities.

Production Engineer

Feb 2016 – Nov 2016

*Prime Hydraulic and Engineers, India*

Implemented cost-saving methods to maintain cost-quality balance. Designed, developed and implemented optimum production schedules, reducing 10% machining time using Special Tools, and redesigned Jigs and Fixtures.

Forecasted demand and production to run an effective supply chain system. Managed CNC machine settings and programming. Maintained precise quality tests and certifications.

Intramural Sports Official

Nov 2014 – Dec 2015

*Lamar University, Beaumont, Texas USA*

Workshop Advisor

July 2013 – June 2014

*Shivalik IB Cars Pvt. Ltd., India*

Developed time schedule charts for job allocation, supervised the shop-floor, controlled the workforce. Collaborated with senior management on Business Process Re-engineering (BPR) efforts resulting in 7% increase in productivity and quality of work.

Redesigned floor layout established first preventive maintenance schedule to cut down costly downtime. Leveraging expertise by conducting periodical training for workers.

Office Manager

Jan 2008 – June 2013

*Miracle Enterprises, India*

Prepared payroll, purchase requisitions, controlled correspondence, designed filing systems. Organized office operations and procedures. Maintained customer service quality by process re-design and implementing changes. Serviced, maintained and troubleshooted computer hardware problems.

## PUBLICATIONS

### *Referred Publications*

**Kaneria, A.**, Hamidi, M., Zhu, W., & Craig, B. (2019). Traffic simulation of Houston Ship Channel for assessing the impact of waterway closures on vessel waiting time. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, ASCE, 145(4), 04019014.

### *Conference Proceedings & Presentations*

**Kaneria, A.**, Li, Y., (2019). Learning Drivers' Behavior using Social Networking Service. *Applied Human Factors and Ergonomics*, Washington D.C., USA, July 2019.

## HONORS AND CERTIFICATIONS

Led a team of 12 High School Math/Science teachers under RET (Research Experiences for Teachers) program by NSF in assembling/operation of **3D printers** and assisted them in modelling parts & components on Autodesk Fusion 360.

(summer-2017 and summer-2018)

Certified Designer in PTC Creo Elements/Pro 5.0 (2012)

## ACADEMIC PROJECTS

Printing Composite Materials Using Fused Deposition Modeling (FDM). (2017)

Analysis on Transit Sheds for Port of Beaumont Using @Risk and Precision Tree. (2017)

Applications of Condition Based Maintenance. (2017)

Design and Assembly of a lever stop valve using Creo software. (2015)

Improving the dish wash room ergonomics of Lamar University Main Dining Hall. (2014)

Design and fabrication of goods carriage elevator for Miracle Enterprises- India. (2013)

“Process Optimization & Performance Up-gradation in Steam Engines” – Undergraduate Engineering Project. (2012 – 2013)

## SOFTWARE SKILLS

- AUTODESK Fusion 360
- Arduino
- Precision Tree multi-stage decision tool
- @Risk cost estimation tool
- PTC Creo Parametric 2.0
- Repetier-Host
- Arena Simulation
- SAP
- Tableau
- HTML, CSS, JavaScript and Mobile App Development Technologies