

ACYUT KANERIA

Instructor

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

Lucas Engineering: #148

Office: (409) 880-8945

Cell: (409) 980-6999

Email: akaneria@lamar.edu

EDUCATION

Doctoral of Engineering in Industrial 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

PROFESSIONAL WORK EXPERIENCE

Instructor

Jan 2019 – Present

Department of Industrial Engineering, Lamar University, Beaumont, Texas

Safely instructing undergraduate manufacturing sessions for INEN 3322 - Engineering Materials Process coursework.

Teaching CNC numerical control programming language and safe operation of Anilam 5000 CNC milling machine, engine lathes, Microbot Teachmover Robots, mills, drill presses, grinders and other ancillary equipment to the students as a part of coursework.

Teaching Assistant

Jan 2017 – Aug 2019

Department of Industrial Engineering, Lamar University, Beaumont, Texas

Guiding and supervising undergraduate and graduate students on Autodesk Fusion 360 in Computer Integrated Manufacturing Lab (face-to-face), and on Arena in Simulation Lab (face-to-face).

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

Instructed students and assisted lab instructor on CNC operation/programming, manual lathes, mills, drill press, grinders and table top robots in Machine Lab.

Research Assistant

Jan 2017 – Present

Department of Industrial Engineering, Lamar University, Beaumont, Texas

Ongoing 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