

TEJA KARKHANIS

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EDUCATION:

- Texas A&M University Fall 2015 -Present
- Pursuing PhD in Biomedical Engineering
 - Advisor: Dr. Balakrishna Haridas
- University of Cincinnati Fall 13- Fall 15
- MS in Biomedical Engineering
 - GPA: 3.91
- MIT College of Engineering, Pune University, India. Jul 06-May 10
- Bachelor of Engineering (BE), Mechanical Engineering,
 - First Class with Distinction

RESEARCH & WORK EXPERIENCE:

- Lab member, Biomedical Device Lab, Texas A&M University *Aug 15-Present*
- Design and development of Pediatric Tracheal Exostent for Congenital Tracheal Stenosis
- Entrepreneur in Training, TEES Office of Commercialization & Entrepreneurship *Oct 15-Present*
- Assisting the Entrepreneurs in Residence with commercialization efforts for technologies developed by TEES Researchers
- Graduate Student & Assistant, Medical Device Innovation and Entrepreneurship Program, University of Cincinnati *Jan 15 – Aug 15*
- Determination of biomechanical properties of tracheal cartilage rings
 - Design of modular retrograde Reamer for ACL reconstruction (UC Health)
 - Design of Force Overload Mechanism for an Endoscopic Clip Applier Device (Ethicon) - Mentored senior design team
 - Development of peel testing substrate to mimic skin properties
- Teaching Assistant (Medical Device Design course) *Aug 14 – Dec 14*
- Assisted student groups in the device design class projects and graded homework and exams
- Assistant Systems Engineer, TATA Consultancy Services (TCS, India) *Sep 10 – Jun 13*
- Development of a Virtual Viscosity Sensor for automotive application using Data Driven Modeling.
- Senior Capstone Project Member *Sep 09 – May-10*
- Mechanical Load Testing and Analysis of Spinal Implants (Pitkar Orthotools Pvt. Ltd., India)

PRESENTATIONS & PUBLICATIONS:

1. Karkhanis T*, Rao M, Zafar F, Morales DL, Haridas B: Tracheal Cartilage Ring Biomechanical Properties for Pediatric Exostent Design, Design of Medical Device Conference, Minneapolis MN, April 12-14, 2016.
2. Karkhanis Teja, Intra-animal and Inter-animal Variations in the Biomechanical Properties of Tracheal Cartilage Rings, MS Thesis, University of Cincinnati, 2015 (Committee Chair: Balakrishna Haridas, PhD)
3. Nesbitt, R.J., Bates, N.A., Karkhanis, T.D., Schaffner, G. and Shearn, J.T., 2016. Impacts of Robotic Compliance and Bone Bending on Simulated in vivo Knee Kinematics. American Journal of Biomedical Engineering, 6(1), pp.12-18.
4. Karkhanis T*, Rao M, Zafar F, Morales DL, Haridas B: Intra and Inter-animal Variations in the Biomechanical Properties of Tracheal Cartilage Rings, Society of Engineering Sciences Conference, College Station TX, October 26-28, 2015.

AWARDS & SCHOLARSHIPS:

- Graduate Incentive Scholarship, Biomedical Engineering, University of Cincinnati, Fall 13 - Spring 15
- BME Discretionary Scholarship, University of Cincinnati, Fall 14