

Daniel McGowan

CONTACT

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ADDRESS

Houston, TX

SUMMARY

Experience in project management, design, quality, Lean Six Sigma, manufacturing, new product introduction (NPI), and cost-out. Research interests include biomechanics, robotics, design engineering, finite element analysis, and solid mechanics.

EDUCATION

Texas A&M University, College Station, TX

Master of Science in Mechanical Engineering

Sept, 2015 –

Present

NC State University, Raleigh, North Carolina

Non-degree student taking graduate engineering courses for use at GE Energy while concurrently working in industry

Fall, 2011-

Spring, 2012

University of Massachusetts, Amherst, MA

Bachelor of Science in Mechanical Engineering, Minor in Computer Science

September, 2005-

May, 2010

ACADEMIC & RESEARCH EXPERIENCE

Design of Transfemoral Prosthetics Research

- Creating the new generation of lower limb prosthetics at Texas A&M; optimizing weight and functionality. Advisor: Dr. Pilwon Hur

Sept, 2015 –

Present

Biomechanics Research

- Conducted Engineering calculations and analyses for biomechanics research at UMass and Amherst College. Advisor: Dr. James Hagadorn
- Analyzed strength of biological structures through extensive FEA analyses
- Obtained biological material properties with thorough laboratory tests and calculations

Spring, 2008 –

2011

Super Mileage Vehicle Research

- Worked on the Super Mileage Vehicle team at UMass; competing for efficiency at an international event
- Collaborated with a small sub-team to design and create the vehicle's body and transmission
- Modeled with CAD and FEA software to design the car and build it in the University's machine shop

September, 2008 –

December, 2009

Teaching & University Work Experience

- Graduate Research Assistant for Human Rehabilitation Group, Texas A&M University
- Teaching Assistant & Lab Instructor for Fluid Dynamics Laboratory, Texas A&M
- Teaching Assistant for Thermodynamics, University of Massachusetts
- Tutor for several courses in the Math and ME departments, University of Massachusetts

May, 2016- Present

Fall, 2015-May, 2016

Fall, 2008

Fall, 2008

