CURRICULUM VITAE

EDUCATION

Ph.D. (Aerospace Engineering), University of Michigan, Ann Arbor, Michigan

M. Eng. (Energy Technology), Asian Institute of Technology, Bangkok, Thailand

B. Eng. (Mechanical Engineering), Rangoon Institute of Technology, Rangoon, Burma

ACADEMIC EXPERIENCE

August 2011 – Present	Professor
	Lamar University
August 2005 – August 2011	Associate Professor
	Lamar University
August 2001 – August 2005	Assistant Professor
	Lamar University
January 1999 – August 2001	Research Assistant Professor
	University of Southern California
September 1996 – December 1999	Post-doctoral Fellow
September 1996 – December 1999	Post-doctoral Fellow Georgia Institute of Technology
September 1996 – December 1999 May 1993 – August 1996	
	Georgia Institute of Technology
	Georgia Institute of Technology Research Assistant
May 1993 – August 1996	Georgia Institute of Technology Research Assistant University of Michigan
May 1993 – August 1996	Georgia Institute of Technology Research Assistant University of Michigan Teaching Assistant
May 1993 – August 1996 August 1992 – May 1993	Georgia Institute of Technology Research Assistant University of Michigan Teaching Assistant University of Maryland

Asian Institute of Technology, Thailand

September 1983 – August 1989

Lecturer

Rangoon Institute of Technology, Burma

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Courses Taught

Undergraduate:

Core Courses:

Dynamics, Engineering Thermodynamics I, Engineering Thermodynamics II, Fluid Mechanics, Measurements Lab, Seminar, Thermal Systems Design, Integrated Systems Design, Senior Design Project

Elective Courses:

Turbomachinery, Introduction to CFD, Energy Engineering, IC Engines, Combustion Theory and Applications

Graduate:

Core Courses:

Advanced Engineering Analysis, Optimization of Thermal Systems

Elective Courses:

Advanced Fluid Dynamics, Selected Topics in Fluid Dynamics, Energy Conversion Systems, Introduction to CFD, Energy Engineering, IC Engines, Combustion Theory and Applications

Teaching Grants

Received 6 Senior Design Project Grants from American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE): 2 grants (\$5,000 and \$3,950) in 2002, 1 grant (\$5,000) in 2003, 1 grant (\$5,000) in 2004, 1 grant (\$4,600) in 2005, and 1 grant (\$5,000) in 2016.

Lamar University Teaching Award

- Presidential Faculty Fellow for Innovation in Teaching Activity, 2014
- Presidential Faculty Fellow for Innovation in Teaching Activity, 2015
- Distinguished Faculty Fellow for Teaching, 2015

Undergraduate Student Mentor/Sponsorship

Faculty advisor:

- Lamar Sigma Xi Section of Pi Tau Sigma ME Honors Society (2015 2016)
- Lamar ASME Student Chapter (2001 Present)
- Lamar SAE Student Section (2005 Present)
- Lamar ASABE Student Section (2006 2012)

Faculty Advisor:

- Over 50 Senior Capstone Design Teams (2004 Present)
- Several teams won prizes and scholarships in regional and national design competitions such as SAE Baja and Texas Space Grant Consortium (TSGC) Design Challenge.

Faculty Mentor

• 2 McNair Scholars: Terry Willemin (2004) and Clent Holmes (2006)

Faculty Mentor:

- Sponsored a paper published by a group of undergraduate students
 - J. Weir, A. Hatton, L. Hughes, M. Pruitt, C. Mitchell and **K. Aung**, "A Parametric Study of a 4-Stroke Motorcycle Exhaust System," 2004 International Mechanical Engineering Congress and RD&D Exposition, Anaheim, CA, November 2004.

RESEARCH AND SCHOLARLY ACTIVITIES

Research Areas and Interests

Modeling and simulation of renewable energy and energy systems, hydrogen flames, combustion and reacting flows, alternative fuels (bio diesel, ethanol, methane, hydrogen) and their uses in IC engines