Mark Summers – Curriculum Vitae

I. Academic/Professional Background

Name: Mark Thomas Summers Title: Lecturer

Educational Background

Degree	*Year*	*University*	*Major*
MS	2021	Texas State University	Engineering, Mechanical/Manufacturing
MST	2012	Texas State University	Industrial Technology, Minor in Mathematics
BSME	1984	Southern Methodist University	Mechanical Engineering

University Experience

Position	*University*	*Dates*
Lecturer	Texas State University	Aug 2012 - Present
Adjunct Professor	Austin Community College	Aug 2007 – Present
Adjunct Instructor	ITT-Technical Institute	Jun 2005 – Mar 2008

Relevant Professional Experience

Position	*Entity*	*Dates*
Mechanical Engineering Manager	AAI/Textron	Dec 1998 – August 2014
Senior Mechanical Engineer	Symtx	Dec 1998 – August 2014
Senior Mechanical Engineer	Eaton/Axcelis	Jul 1994 – Dec 1998
Senior Mechanical Engineer	Lockheed	Oct 1990 – Jul 1994
Senior Mechanical Engineer	General Dynamics	Jun 1984 – Oct 1990

Other Professional Credentials (licensure, certification, etc.)

Certified Manufacturing Technologist (CMfgT) Certification (SME)	2019
Certified Solidworks Professional – Mechanical Design (CSWP)	2015

Texas Professional Engineer - Application Submitted – PE Exam Scheduled 2022

II. Teaching Experience

Teaching Honors and Awards:

Texas State University Teaching Award of Honor - 2020

Courses Taught:

Texas State University

ENGR 1304 – Engineering Graphics I

ENGR 2300 – Materials Engineering

ENGR 3311 – Mechanics of Materials

ENGR 3375 – Mechanics for Engineers

MFGE 2332 – Materials Selection & Manufacturing Processes

MFGE 3316 – Computer Aided Design/Manufacturing (CAD/CAM)

MFGE 4355 – Design of Machine Elements

MFGE 4363 – Concurrent Process Engineering

MFGE 4390 – Manufacturing Senior Design I

MFGE 4391 – Manufacturing Senior Design II

CSM 3360 – Structural Analysis

CSM 3367 – Mechanical, Electrical, and Plumbing (MEP)

TECH 3344 – Termofluids

TECH 4365 – Machine Elements

TECH 4380 – Industrial Safety

TECH 2351 – Statics and Strength of Materials

TECH 3367 – Mechanical, Electrical, and Plumbing (MEP)

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Austin Community College

DFTG 1429 – Electro-Mechanical Design (Solidworks)

ENGR 1304 – Engineering Graphics I (Solidworks)

DFTG 2440 – Solid Modeling/Design (Pro/E – Creo)

DFTG 1433 – Mechanical Drafting (AutoCAD)

DFTG 2419 – Intermediate Computer-Aided Drafting (AutoCAD)

DFTG 2402 – Machine Drafting (Inventor)

EDUC 1300 – Strategies for College Success

ITT-Technical Institute

CD250T – Engineering Graphics II

CD210T – Engineering Graphics I

III. Scholarly/Creative

Graduate Theses/Dissertations

Optimization of an Atmospheric Water Generation System Using Peltier Devices and Multiple Heat Transfer Mechanisms

International Journal of Engineering Materials and Manufacture, "Improving Heat Transfer from Peltier Devices Used in an Atmospheric Water Generation". (2021)

The Bent of Tau Beta Pi - Winter 2011 - Math Works Article "Vertical Center of Gravity"

PTC/USER World 2008 – June 2008 – Long Beach, CA - "Altered Item Drawings"

Calculating Tolerances on Mechanical Designs – Fall 2012 – Austin Community College

IV. Consultancies

Summers Technical Services (2014 – Present)

V. Service

Formula SAE Bobcat Racing Faculty Advisor (2016 – 2019)

President - Texas Bicycle Motocross Hall of Fame (2011 - 2017)

VI. Organizations

Honorary Organizations

Pi Tau Sigma – Honorary Mechanical Engineering Fraternity

Tau Beta Pi – Honorary Engineering Society

Mensa International – International High IQ Society

Professional Organizations

American Society of Mechanical Engineers - ASME

American Society for Testing and Materials - ASTM

Society for Industrial and Applied Mathematics – SIAM

Society for the Advancement of Material and Processing Engineering – SAMPE

Society of Automotive Engineers - SAE