

**Daniel C. Deckler, Ph.D., P.E.**

Professor of Engineering

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Work Address:

The University of Akron

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**EDUCATION**

Doctor of Philosophy; Engineering; The University of Akron; December, 2002,

“Modeling and Feedback Control of a Tilting-Pad Bearing,” D. C. Deckler, Ph.D Dissertation.

Master of Science; Mechanical Engineering; The University of Akron; May, 1990,

“Net Impact Dynamics,” D. C. Deckler, M. S. Thesis.

Bachelor of Science; Mechanical Engineering with a Computer Science Option; Ohio Northern Univ.; May, 1985.

**PROFESSIONAL EXPERIENCE (all full-time)**

**The University of Akron – Akron, Ohio.**

**Professor of Engineering:** September, 2004 to present.

Responsible for teaching undergraduate courses in mechanical, electrical, and civil engineering, advising students, and performing research. Current advisor for SAE Formula Combustion and Formula Electric teams. Perform research in active tilting-pad bearing technology and deformable robotics.

**Professional Development Leave at the University of Chile, Santiago:** September, 2016 to June 2017  
Invited by The University of Chile to spend nine months working with Professor Juan Cristobal Zagal to perform research in deformable robotics, octahedron and soft robots, and research in soft sensors.

**Interim Dean:** July, 2013 to June, 2015

Responsible for developing and managing a \$13 million annual budget, developing and implementing the college’s strategic plan, supervising the college’s HLC accreditation efforts, fundraising, fostering relationships with community leaders, and managing personnel requests including the hiring of new/replacement faculty and staff positions.

**Interim Associate Dean:** September, 2012 to June, 2013

Responsible for managing the Office of Academic Affairs at Wayne College. Oversaw curriculum offered at Wayne College and proposed new degree programs and managed the College’s current programs and courses. Directed reaccreditation efforts. Supervised all full-time faculty, the head of the Office of Continuing Education and Workforce Development, and the head of the Library.

**ASME Congressional Fellow**

**House of Representatives Science and Technology Committee:** September, 2007 to August, 2008

Served as an advisor to the House Science and Technology Committee minority staff on issues of the economics of climate change, nanotechnology, cybersecurity, health IT, STEM education, women in science and engineering and engineering globalization. Served as a liaison between this committee and Congressman Gingrey’s office. Assisted in organizing hearings, developing questions to ask witnesses and developing opening statements for Congressman Phil Gingrey (GA), the ranking member of the Technology and Innovation subcommittee.

**Associate Professor of Engineering:** September, 1999 to 2004.

**Assistant Professor of Engineering:** September, 1994 to September, 1999

**Instructor of Engineering:** September, 1991 to September, 1994

**Loral Defense Systems; Akron, Ohio.**

**Engineer in the Antisubmarine Warfare Group:** 1986 - 1990.

Lead engineer responsible for the design, fabrication and testing of a new mooring system for the Advanced Sea Mine. Directed the efforts of draftsmen, analysis engineers, electronic technicians, and engineering shop personnel. Analyzed underwater mine dynamics and developed computer programs simulating mine motion. Responsible for testing different mooring systems and analyzing the resulting test data.

**The Timken Company; Canton, Ohio.**

**Engineer in the Engineering Services Department;** 1985 - 1986.

Project leader for the parametric design and raster image projects. The raster image project consisted of finding a means to convert paper-engineering drawings to electronic raster images and then using data compression to store these images.

**PROFESSIONAL ACTIVITIES**

Registered Professional Engineer in the state of Ohio, Registration Number: E-63886.

Member: American Society of Mechanical Engineers (ASME).

Member of the National Board of Government Relations, November 2009 to present.

Chair, Public Policy Subcommittee

Chair, Energy Public Policy Task Force

Member of the Canton-Alliance-Massillon section, September 2009 to present.

Chair of the Canton-Alliance-Massillon (CAM) section, July 1999 to July 2000.

**BOOKS**

- *Six Minute Solutions for Mechanical PE Exam Thermal and Fluids Systems Problems*, 3<sup>rd</sup> ed., Prof. Pub., Inc., 2018.

**CHAPTERS IN BOOKS**

- “Mechanical Engineering in the FY2015 Budget,” in *AAAS Report XXXIX R & D FY 2015*.

**SERVICE**

- Advisor for the SAE Formula Combustion team.
- Advisor for the SAE Formula Electric team.
- Worked directed a student working on NASA grant for undergraduate research.
- Academic student advisor.
- Volunteer with Habitat for Humanity.

**PROFESSIONAL DEVELOPMENT**

- I am currently working with two companies on the development of two, new innovative products.
- Formula SAE®, Internal Combustion Engine, Electric and Hybrid Workshop

**COURSES TAUGHT**

Undergraduate

Control System Design	4600:441	Design of Mech. Comp.	4600:337	Concepts of Des	4600:460
Fund of Mech Vibrations	4600:431	Fluid Mechanics II	4600:311	Dynamics	4600:203
Statics	4300:201	Circuits I	4400:331	Circuits II	4400:232
Intro to Mech of Solids	4300:202	Tools for Engineers	4100:101	Signals and Sys.	4400:301
Electric Circuits Lab	4440:340	Prog for Eng.	4450:208	Chem Eng Com.	4200:121
Elem Classical Physics I	3650:291	Physics Comp. I	3650:293	Physics Comp II	3650:294
Intro to Ord Diff Eqns	3450:335	PreCalc Math	3450:149	Visual Basic	2440:170
College Algebra	3450:145	Software Fund	2440:103		

Graduate

System Simulation	4450:515
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