

# DAVID MORGAN

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## EDUCATION

**B.S. In Electrical Engineering** Western New England College, Springfield, MA; 1969

**M.S. In Electrical Engineering** Rutgers, The State University of New Jersey, New Brunswick, NJ; 1972

**Ph.D. Academic credit requirements and the qualifying exam completed.** Rutgers, The State University of New Jersey, New Brunswick, NJ; 1974

**Masters Certificate in Project Management** George Washington University/ESI International, Washington, DC; 2002

**Certificate in Global Technology Management** Babson College, Wellesley, MA

## COLLEGE TEACHING EXPERIENCE: SPRING 2008 TO PRESENT

**MCPHS University: PART-TIME ADJUNCT** *Spring 2008 to Present*

Mathematics & Physics Tutor at the Student MATH Center: 2009 Fall to Present;

Statistics: 2008 Fall; 2010 Summer, Fall; 2011 Spring, Summer, Fall; 2012 Spring, Summer; 2013 Summer I

Statistics In Clinical Research: Spring, Summer, and Fall 2013 to present.

Nursing Dosage Mathematics: 2012 Summer; 2013 Summer

College Algebra and Trigonometry: 2008 Fall; 2011 Summer;

College Algebra and Trigonometry Online and Classroom: Spring, Fall 2014 to present.

Pre-Calculus: 2011 Summer;

Calculus I: 2009 Fall; 2010 Spring, Fall; 2011 Fall; 2012 Summer, Fall; 2013 Fall; 2014, 2015, 2016, 2017, 2018 Summer, Fall 2019

Calculus II: 2010 Spring, Fall; 2012 Fall, 2013 Spring; 2014, 2015, 2016, 2017, and 2018 Summer

Physics I Lab: 2008 Spring, Fall; 2009 Spring, Fall; 2010 Fall; 2011 Spring, Fall; Spring, Fall

Physics II Lab: 2009 Spring; 2012 Spring

**Simmons University: PART-TIME ADJUNCT** *Fall 2012, 2013 to 2015*, **FULL-TIME CONTRACT INSTRUCTOR** 2015 to present

Intro to Statistics: MATH.118: 2012 to present

Intro to Statistics: MATH.118.SS 2014 and 2016 Summer

Intro to Statistics: MATH.418: 2015 Fall to present.

Statistical Analysis and Design: MATH.227: 2016 Fall; 2018 Spring

Applied Statistical Analysis I: DEDU.651 / CNBH661: Fall 2016 - Summer 2019.

Applied Statistical Analysis II: DEDU.652 / CNBH.662: Spring 2017 - Fall 2019..

Computer Organization and Architecture: CS.226: 2017 Fall

Calculus I: MATH.120: 2018 Spring, 2020 Spring.

**Wentworth Institute of Technology:** *Spring 2008, Fall 2012 to Present*

Pre-Calculus: 2008 Spring;

Calculus I: 2012 Fall

College Mathematics: 2012 Fall;

Physics II and Lab: 2013 Spring; Engineering Physics I and Lab: 2013 Fall; 2014 Spring, Fall; 2015 Spring and Summer.

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## AWARDS

**Project Management Professional Certification, Project Management Institute** 2003

**Seven Patents awarded in circuit and computer system design.** Various Dates

1. "Liquid crystal display", assigned to RCA Corporation
2. "Signal detection in a noisy path", assigned to RCA Corporation
3. "System for eliminating substrate bias effect in field effect transistors", assigned to RCA Corporation
4. "Keyed comparator", assigned to RCA Corporation
5. "Apparatus and method for applying rapid transient signals to components on a printed circuit board", assigned to Hewlett Packard
6. "Self-testing memory", assigned to Hewlett Packard
7. Automatic sizing memory system with multiplexed configuration signals at memory modules", assigned to Hewlett Packard

## RELATED INDUSTRY EXPERIENCE

**Logic Design Training Course Development and Pilot Program** Intel Corporation 2006 - 2007

**Integrated Circuit Design Engineer** RCA Corporation, Somerville, NJ 1969-1975

**Micro-Processors and Peripherals Semiconductor Design Engineer; Design Project Leader, and Project Leader;** DEC, Compaq Computer, Hewlett Packard, Intel Corporation; Hudson, MA 1975-2007. I retired from Intel Corporation 2007.

## PUBLICATIONS AND PAPERS

1. "The CVAX CMCTL – A CMOS Memory Controller Chip", Digital Technical Journal
2. "The CVAX CMCTL – A CMOS Memory Controller Chip", Proceedings of the ICCD: VLSI Computers and Processors
3. "COS/MOS Integrated Circuits in the Automotive Environment", RCA COS/MOS Technology
4. "COS/MOS Phased Lock Loop – A versatile building block for micro-power digital and analog applications", RCA COS/MOS Integrated Circuits RCA Corporation
5. "A Digital Auto Clock using COS/MOS LSI Technology", Presented at Vehicular Technology Conference, IEEE Publication

## VOLUNTEER TEACHING EXPERIENCE

**Instructor Corporate Training – RCA Corporation, Somerville, MA** "Phased Lock Loops": Developed syllabus and course content, and videotaped lectures comprehended in the corporate training program.

Intel University Instructor *Intel Corporation, Hudson, MA* Project Management Certification Preparation": Developed syllabus and course content, and delivered 10 distance learning classes world-wide in different subject areas. 2005 – 2007

Community Outreach - I taught assignments at Hudson and Marlborough elementary schools: "Engineering is Elementary", National Reading Week".

**CCD Teacher** – I taught Catholic education to students from 4<sup>th</sup> grade up to 10<sup>th</sup> grade. *St. John The Evangelist Church, Hopkinton, MA 1993 - Present*