Howard A. Winston

Physics and Engineering

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Education:

* Rensselaer Polytechnic Institute (RPI), Troy, NY – B.S. in Physics, 1978.
* Brown University, Providence, RI – M.S. in Physics, 1980.
* Brown University, Providence, RI – Ph.D. in Physics, 1984.

Experience (Teaching):

* University of Connecticut (Waterbury Regional Campus), 2014 to present (Assistant Professor in Residence) – Introductory Physics, Calculus I and II, Introductory Engineering, Digital Electronics.
* O’Brien Elementary School, East Hartford, CT, 2014 (Volunteer)
* University of Connecticut (Waterbury Regional Campus), 2007 to 2013 (Adjunct Faculty)
* East Hartford High School, 2006 – 2007 and 2009 – 2010 (Mathematics Tutor)
* University of Hartford, Dept. of Physics, Mathematics, and Computer Science – 1996 (Adjunct Faculty)
* Rensselaer Polytechnic Institute, Brown University – Teaching Assistant (laboratory and classroom instruction)

Experience (R&d):

* United Technologies Research Center – 2011 to 2014 (Senior Research Engineer; Decision Support and Machine Intelligence; Systems Department)
* United Technologies Research Center – 2006 to 2011 (Senior Research Engineer; Networks and Optimization; Systems Department)
* United Technologies Research Center – 2002 to 2005 (Senior Research Engineer; Dynamic Modeling and Analysis; Systems Department)
* United Technologies Research Center – 2000 to 2002 (Senior Research Engineer; Estimation and Decision; Networks Department)
* United Technologies Research Center – 1997 to 2000 (Senior Research Engineer; Applied Mathematics; Information, Computation, and Communication Technology Department)
* United Technologies Research Center – 1995 to 1997 (Senior Project Analyst; Diagnostic Systems Group)
* Tokyo Institute of Technology - 1994 (Visiting Researcher)
* United Technologies Research Center - 1989 to 1994 (Senior Project Analyst; Artificial Intelligence Group)
* Schlumberger-Doll Research, Ridgefield, CT - 1984 to 1989 (Member of the Professional Staff; Systems Science Department

PATENTS:

* Five granted patents
* One patent disclosure; Four patent applications

PRESENTATIONS AND PUBLICATIONS:

* 16 conference proceedings
* Five invited presentations
* Three book chapter contributions
* Five journal articles

**HONORS AND AWARDS:**

* Innovative Physics Instruction - Equipment Grant, Provost, 2015-2016.
* Scientific Teaching Fellow, AY 16-17, National Academy of Sciences.
* CETL Mini-Grant, Summer, 2019, University Level.
* CETL Scholarship of Teaching and Learning Fellows Program, Spring, 2020.
* OVPR, Technology Commercialization Services – High Value Talent Retreat, Spring, 2021.
* CETL University Teaching Innovation Award, 2021, University Level.