

Education	Massachusetts Institute of Technology Ph.D., Engineering Systems Management and Policy, 2003 S.M., Civil and Environmental Engineering, 1999 S.M., Technology and Policy, 1999	Cambridge, MA
	Swarthmore College B.A., Mechanical Engineering, 1995 B.S., Political Science, 1995	Swarthmore, PA
Academic Experience	Howard University – School of Business <i>Tenured, Associate Professor, 2011-present (Asst. Professor 2004-2011)</i>	Washington, DC 2004 – present
	• Professor of technology management – Graduate and undergraduate courses include: ○ Innovation and Technology Management ○ Project Management ○ Quantitative Business Analysis ○ Production and Operations Management ○ Business Problem Solving ○ Management Information Systems • Awards and Patents: ○ Howard University Provost Award for Program Innovation Service, 2026 ○ Howard University School of Business Outstanding Service Award, 2025 ○ Provost’s Distinguished Service Award, 2021 ○ COBIS – Information Systems Award for Outstanding Teaching, 2009 ○ Howard University Exemplary Teaching Award, 2008 ○ Howard University Fund for Academic Excellence Award, 2005 & 2007 ○ Mordecai Wyatt Johnson Award for interdisciplinary research, 2005 ○ Unger, D., et al. Patent for Commercial Electric Lighting Device, Patent #6,681,508, Washington DC: US Patent & Trademark Office, 2002 / 2004 • Ongoing research and publications on technology and innovation management • Member of the University Academic Excellence Review Committee, 2026-present • Member of the University Program Innovation and Review Committee, 2023-2026 • Chair of the School of Business Executive Committee, 2025-present • Chair of Faculty Teaching and Development Committee, 2023-2025 • Chair of Academic Planning Committee, 2018-2023	
	Asian Institute of Technology <i>Visiting Faculty and Lecturer</i>	Bangkok, Thailand Sept. 2003 – Jan. 2004
	• Conducted research on operations management and product development in the power and energy industries • Fully responsible for designing and teaching graduate course on project development, evaluation, and management in the energy industry • Facilitating establishment of cross-disciplinary program between the AIT School of Management and the AIT School of Environment, Resources, and Development	

MIT Center for Innovation in Product Development

Cambridge, MA

Research Assistant, Advisor: Dr. Steven Eppinger

Sept. 2000 – May 2003

- Researched means of improving companies' information flows and product development processes in response to competitive and regulatory pressures
- Devised and demonstrated new metrics for product development process comparison
- Developed a tool for improved product development process design and time-to-market

MIT Laboratory for Energy and the Environment

Cambridge, MA

(Formerly called the MIT Energy Laboratory)

Research Assistant, Advisor: Dr. Elisabeth Drake

Jan. 1998 – Sept. 2000

- Modeled life-cycle fuel costs and emissions for different fuel and engine combinations in the U.S. automobile market
- Evaluated the effects of power industry deregulation, turbine development, fuel choice, and energy prices on the electricity industry

MIT Sloan School of Management and School of Engineering

Cambridge, MA

Guest Lecturer and Teaching Assistant

Fall 1997, Fall 2001

- Guest lecturer for executive, graduate, and undergraduate courses in project management and systems engineering
- Teaching assistant for graduate course on strategic planning

**Industrial &
Government
Experience**

Intech Energy Associates

Boston, MA

Principal Consultant

June 1998 – Sept. 2000

- Co-founded this power industry and environmental energy consulting company to help independent power producers, utilities, manufacturing companies, and major electricity customers deal effectively with restructured electricity markets
- Developed electric generation business strategies and environmental compliance plans

Sithe Energies

Everett, MA

Strategy Contractor

May 1998 – Sept. 1998

- Developed successful power generation facility strategies in the wake of Massachusetts electrical deregulation, changing air quality laws, and emerging power generation technologies

Westinghouse Electric Corporation

Orlando, FL

Program Manager

Jan. 1996 – Aug. 1997

- Managed 40 engineers and support staff for three international, multimillion dollar, power turbine engineering projects in this \$7 billion company
- Responsible for technical progress, budget, and schedule of turbine development and 350-megawatt power plants in the People's Republic of China
- Received the Power Generation Quality Award in 1996 for innovative and successful contract negotiations that saved the company \$250,000

Project Engineer

July 1995 – Jan. 1996

- Designed and constructed steam turbine power plants and auxiliary equipment
- Responsible for the completion of main turbine and generator units

U.S. Congress, Office of Technology Assessment

Research assistant

Washington, D.C.

May 1994 - Sept. 1994

- Analyzed environmental legislation, edited documents on alternative energies and fuels, and published reports on simulation technologies

**Emergency &
Community
Management**

Montgomery County Fire/Rescue

Volunteer Firefighter and Emergency Medical Technician

Montgomery County, MD

2004-present

Montgomery County Sierra Club

Chair of Executive Committee,

Montgomery County, MD

2023-present

Montgomery County ACLU

President 2015-2017

Montgomery County, MD

2012-2020

Maryland Sierra Club

Advocate and Chair of Energy Committee

Annapolis and College Park, MD

2015-2017

Silver Spring Advisory Board

President 2010-2012

Silver Spring, MD

2006-2012

Select Publications:

Unger, D. and Balasubramanian, K., (2023), Covid-19 Pandemic Lessons for Climate Change Policy: How Cost and Rationality Assumptions Limit Externality Analysis, *Journal of Business and Economic Perspectives*, Vol. L, No. 2, Fall/Winter 2023

Unger, D. and Unger, M. (2018), E-cigarettes/electronic nicotine delivery systems: a word of caution on health and new product development, *Journal of Thoracic Disease*, Vol. 10, Supp. 22, pp S2583-S2587.
jtd.amegroups.com/article/download/23103/pdf

Unger, D., (2011), Modern innovation management theory and the evolving US lighting industry, *Journal of Management History*, Vol. 17. No. 1. pp. 9-26.

Unger, D. and Eppinger. S., (2010) Improving Product Development Process Design: A Method for Managing Information Flows, Risks, and Iterations, *Journal of Engineering Design*, Oct. 27.

Unger, D., (2010), Innovation and market entry in the energy industry: Lessons for fuel cells and new technologies, *Journal of Business and Economics Research*, Vol. 8, No.10, pp. 67-76.

Unger, D. (2010), Business education innovation: How common exams can improve university teaching, *American Journal of Business Education*, Vol. 3, No. 9, pp. 67-72.

Unger, D. and Eppinger, S., (2009) Comparing Product Development Processes and Managing Risk, *International Journal of Product Development*, Vol. 8, No. 4, pp. 382-402.

Unger, D. (2009), Correlations Demonstrating the Importance of the Free Flow of Information: The Role of National Religious Freedom in Business Competitiveness, *Washington Business Research Journal*, Vol. 1, No. 1, 2009, pp. 22-32.

Unger, D. and Goel, R., (2007), Sharing Information While Guarding Competitive Advantage: Managing Security in Supply Chain Networks, *Alliance Journal of Business Research*, Vol. 3, No. 1, pp. 49-60.

Unger, D. "Energy Policy and Environmental Technology: The Development of Natural Gas Turbine Technology in Power Generation," Proceedings Paper, *5th Annual Conference on Technology Policy and Innovation*, Delft, The Netherlands: T.U. Delft, June 2001.

Allenby, B. and Unger, D. "Information Technology Impacts on the U.S. Energy Demand Profile," *E-Vision 2000 – Key Issues That Will Shape Our Energy Future*, Washington D.C.: RAND & U.S. Department of Energy, 2001. CF-170/1-1-DOE.

Unger, D. "Management of Engineering Innovation in the Power Turbine Industry," Proceedings Paper, *2000 North American Power Symposium*, Waterloo, Canada: IEEE Power Engineering Society, 2000.

Drake, E., Weiss, M., Unger, D., et al. "Fuels and Vehicles for 2020: How the New Technologies Measure Up," *E-lab*, MIT Energy Laboratory Journal, Oct.-Dec., 1999.