Curriculum Vitae

Steven D. Eppinger

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Citations: http://scholar.google.com/citations?user=ewwakRYAAAAJ

Education

Degree	School	Date
Sc.D. (Mechanical Engineering)	MIT	9/88
S.M. (Mechanical Engineering)	MIT	6/84
S.B. (Mechanical Engineering)	MIT	2/83

Principal Fields of Interest

Product Development, Engineering Design, Technology Management, Project Management

History of MIT Appointments

Rank	Start	End
Professor of Innovation (by joint appointment)	7/09	
Professor of Management Science	7/01	
Professor of Engineering Systems (by joint appointment)	7/99	6/16
Associate Professor of Management Science (with tenure)	7/96	6/01
Associate Professor of Management Science (without tenure)	7/93	6/96
Assistant Professor of Management Science	7/88	6/93

Consulting Activities

Advisory Boards

Firm	Location	Date(s)
Naya Studio, Inc.	Boston, MA	12/24 ——
SurgiBox, Inc.	Cambridge, MA	10/24 ——
Ambit Health Ventures	Boston, MA	4/24
Lattix, Inc.	Andover, MA	7/04 – 4/22

Completed Engagements

Client	Location	Date(s)
Mahidol University	Bangkok	1/25
PTC	Boston, MA	6/12 – 5/23
Omega Therapeutics	Cambridge, MA	11/22
Fusion for Energy	Barcelona	12/20 – 10/21
Lutron Electronics Co.	Coopersburg, PA	10/18 – 5/19
Ipsen Bioscience, Inc.	Cambridge, MA	10/17 – 1/19
Avatech	Park City, UT	9/13 – 6/18

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6/92 – 1/93
5/92
5/91, 5/92
11/90, 7/91
12/90 – 2/91
9/89
2/88 – 10/88
6/84 – 4/85

MIT Executive Teaching

Program or Client	Location	Date(s)
Artificial Intelligence Executive Academy	MIT	4/25 —
Merck KGaA	MIT	9/24 ——
Schneider Electric	MIT	11/23
Bank of America	MIT	8/23 ——
Endress+Hauser	MIT	1/23 ——
MITxPRO Technical Project Management	online	4/22 ——
UL Solutions	MIT	9/22 ——
Managing Complex Technical Projects	online	6/20 ——
Mastering Design Thinking	online	3/18 ——
IPADE	MIT	4/17 ——
Advanced Management Program	MIT	06/14
Systematic Innovation	MIT	11/13
Mahidol SIBA	MIT	3/12
TELUS	MIT	2/25, 3/25
Thomson Reuters	MIT	11/23 - 5/25
Mondelez International	Hanover, NJ	3/24
Saudi Electricity	MIT	12/22 - 5/23
Banco Popular	MIT	11/22
AXA	MIT	4/22
Porsche	MIT	11/15, 2/22
Travelers	MIT	3/21
Fannie Mae	MIT	11/17 – 12/21
Danske Bank	MIT	11/20
Accenture	India	3/15 – 1/20
Managing Complex Technical Projects	MIT	9/99 — 11/19
NACS	MIT	11/19, 11/22
Alfa Group	MIT and Mexico	10/15 – 6/19
CEMEX	MIT	11/17
Turk Telekom	MIT	4/17
Flex	MIT	5/16
Alstom Tech. Leaders	MIT and Switzerland	5/14 – 7/15
BP Operations Academy	MIT	6/12 – 7/14
SDM Certificate Program	MIT	8/01 – 8/13
Product Development	MIT	6/97 – 10/12
BP Projects Academy	MIT	6/03 – 3/12
China Mobile	MIT	10/11, 9/12
ACMA	MIT and India	10/08 – 2/11
Boeing China	MIT	12/10
Air Liquide	MIT	10/10
Rusnano	MIT	4/10
Russian Oil and Gas Industry	Moscow	11/09, 10/10
International Management	MIT	6/08, 6/09
International Advanced Management	MIT	6/06, 6/07

Mars University	MIT	4/06
Leading Innovation and Entrepreneurship	MIT	2/05, 3/06
Project Management for Engineers	MIT	6/96 - 1/00
India Executive Program	MIT	5/97, 5/98
LFM Industry Leaders	MIT	11/95, 2/98
Management of R&D Executive Program	MIT	6/95
MIT Summer Session Course	MIT	8/94
US Army Missile Command (MICOM)	MIT	5/94
Central/Eastern European Teachers	MIT	7/93
MIP/MIT Executive Program	MIT	6/91, 6/92

Other Executive Teaching

Program or Client	Location	Date(s)
Schneider Electric	online	11/25
Foundations of Innovation & Entrepreneurship	MIT	6/17 ——
Fusion for Energy (ITER)	online	1/21 – 9/21
US Army R&D Center	Natick, MA	12/16
Pratt&Whitney Customer Training Ctr.	Farmington, CT	10/13
Qualcomm, Inc.	San Diego, CA	12/08
FARO Technologies	Cambridge, MA	10/07
Intl. Assn. of Product Development	San Diego, CA	1/06
Nordic Management of Technology Prog.	Boston, MA	11/92 – 9/02
Royal Complutense Spanish Scholars Pgm	Harvard Univ.	7/99 - 7/02
Exec. Masters in International Logistics	Georgia Tech, Atlanta	11/01
ENDREA	Göteborg, Sweden	10/01
Bose Corporation	Framingham, MA	3/01
Stockholm School of Econ, Exec MBA	Cambridge, MA	3/01
United Technologies Advanced Studies Pr.	East Hartford, CT	10/00
Euroforum	Madrid, Spain	5/00
Instituto Internacional San Telmo	Sevilla, Spain	5/99
Management Roundtable	Waltham, MA	2/97 – 11/98
CERTI Foundation	Florianópolis, Brazil	9/98
Sonera, Tele Business School	Finland	12/96 – 5/98
Chalmers Advanced Management Pgm.	Boston, MA	3/98
IIR Finland	Helsinki, Finland	12/96, 12/97
Design Management Institute	Amsterdam, Netherlands	3/97
University of Michigan	Ann Arbor, MI	8/96, 3/97
International Equipment Company	Needham Heights, MA	4/96
Unilever General Management Course	Kingston-upon-Thames, England	3/96
China Educational Tours	Boston, MA	7/92
Estonian Management Institute	Tallinn, Estonia	1/91

MIT Activities

Administrative Positions	Start	End
Co-Director, SDM and IDM Programs	4/10	6/22
Deputy Dean, Sloan School of Management	10/07	6/09
Interim Dean, Sloan School of Management	7/07	10/07
Deputy Dean, Sloan School of Management	7/04	6/07
Co-Director, LFM and SDM Programs	7/01	7/03
Co-Director, Center for Innovation in Product Development	6/00	1/02
Research Director, Ford-MIT Collaboration	5/98	9/01

Committees	Start	Fnd
Sloan Executive Education Committee	9/18	
MIT Endicott House Board of Governors	7/07	6/28
MIT Online and Professional Continuing Education Working Group	11/23	10/25
Martin Trust Center Advisory Committee	9/19	6/25
MIT Committee on Nominations	7/19	6/22
MIT Design Initiatives Committee	11/20	1/22
Sloan Task Force on Digital Education	9/18	6/20
Sloan Global Initiatives Committee	9/15	6/19
Committee on Outside Professional Activities	9/12	6/19
New Engineering Education Transformation Program Committee	6/16	6/17
Committee on MIT's Role in Reducing the Cost of Health Care	8/14	6/15
Corporation Joint Advisory Committee on Institute-Wide Affairs	7/12	6/15
Institute-wide Task Force on the Future of MIT Education	3/13	8/14
Entrepreneurship Minor Committee	7/12	6/14
Engineering Academic Programs Review Committee	1/14	5/14
Sloan Executive Personnel Committee	9/13	5/14
MIT-BP Research Program Committee	9/11	12/13
MIT Endicott House Review Committee (chair)	3/13	10/13
Sloan Fellows and EMBA Programs Committee	8/12	7/13
Sloan Undergraduate Education Task Force	10/12	5/13
MITx Steering Group	5/12	1/13
Ad Hoc Committee on Innovation and Entrepreneurship	11/11	6/12
ESD Organization Task Force	9/11	5/12
Sloan Executive Education Committee	9/09	6/10
Killian Award Selection Committee	9/09	6/10
MIT Task Force Working Group on Administrative Processes (co-chair)	2/09	6/10
MIT Committee on Conflicts of Interest in Research	9/08	6/10
Lemelson-MIT Sustainability Prize Screening Committee	10/08	6/09
MIT International Advisory Council	6/07	6/09
Sloan International Initiatives Committee (chair)	9/04	6/09
Sloan Executive Education Committee (chair)	9/04	6/09
Sloan Executive Personnel Committee	9/04 9/04	6/09 6/09
Sloan Space Committee MIT Faculty Council	9/04 7/04	6/09
MIT Open CourseWare Director Search Committee (chair)	11/07	7/08
School of Engineering Strategic Planning Council	10/07	5/08
Sloan Undergraduate Program Committee	9/04	7/07
Sloan Doctoral Program Committee	9/04	7/07
School of Engineering Deans Search Committee	11/06	6/07
MIT Research Administration Council	9/05	6/07
MIT150 Sesquicentennial Planning Committee	11/06	1/07
Innovation and Entrepreneurship Program Design Committee	11/05	6/06
MIT Undergraduate Commons Task Force	7/04	8/06
MIT-BP Research Program Committee	9/04	12/05
MIT IT-SPARCC Council	9/04	9/05
Lemelson-MIT Prize Board	9/00	2/03
MIT Faculty Council	8/00	6/03
Sloan Undergraduate and Interdepartmental Program Committee	9/99	6/03
Sloan Masters Program Redesign Committee	3/02	12/02
Engineering Council (Extended)	7/00	6/02
Sloan Community Appreciation Awards Committee	5/00	5/02
Sloan Task Force on Educational Technology	9/99	3/02
MIT Committee on Undergraduate Policy (CUP)	9/98	8/01
Sloan Building Technology Sub-Committee	8/00	6/01

	Sloan Undergraduate Minor Committee (Chair) Lemelson-MIT Prize Screening Committee Sloan Executive Education Committee LFM Knowledge Transfer Committee MIT Committee on the Writing Requirement Sloan Committee on Faculty Load Brooks Thesis Prize Committee Sloan Committee on Undergraduate Advisors	1/99 10/97 9/97 1/95 6/91 9/90 9/89 8/89	6/00 4/00 9/98 6/96 6/94 12/90 5/90 6/96
	Research and Teaching Programs System Design and Management Program Leaders for Global Operations Program Integrated Design and Management Program Singapore-MIT Alliance (Advanced Manufacturing Technology Program) Ford-MIT Collaboration Center for Innovation in Product Development Lean Aerospace Initiative International Center for Research on the Management of Technology International Motor Vehicle Program Laboratory for Manufacturing and Productivity	Start 6/94 9/88 9/15 7/99 5/98 6/96 6/96 9/90 8/91 9/88	End
Но	Chairs General Motors Leaders for Global Operations Chair General Motors Leaders for Manufacturing Chair Nanyang Technological University Career Development Chair	Start 6/09 1/98 11/93	End 6/09 6/95
	Awards INFORMS Omega Rho Distinguished Lecture Design Society, Fellow Technical University of Denmark H.C. Ørsted Distinguished Lecture MIT Teaching with Digital Technology Award Nomination INFORMS Technology, Innovation Management, and Entrepreneurship Distinguished Speaker Award PICMET Medal of Excellence Award Wickham Skinner Award for Best Paper Published in Production and Operations Management in 2013, 2nd place award World Economic Forum, Global Agenda Council on the Skills Gap POMS College of Product Innovation and Technology Management, Distinguished F University of Minnesota 5th Annual Allan D. Shocker Lecture ASME Xerox DTM Best Paper Award ASME Design Theory and Methodology Conference Best Paper Award Academy of Management, TIM Division Best Books List MIT Alumni/ae Award for Innovation and Excellence in Management Education MIT Graduate Student Council Teaching Award		Date 10/24 4/23 10/19 6/17 11/15 8/15 5/14 5/08 5/06 3/03 9/01 9/95 1/95 5/93 5/93
	Grants Swisscom Research Grant BP Research Grant Siemens Research Grant	Start 2018 2013 2009	End 2021 2017 2014

Ford-MIT Collaboration Research Grant	1999	2001
Center for Innovation in Product Development (CIPD) Research Grant	1999	2001
National Science Foundation Engineering Research Center Grant (CIPD)	1996	2001
Lean Aircraft Initiative Research Grant	1996	1999
Hewlett Packard Research Grant	1996	1999
NASA New Millennium Program Research Grant	1996	1998
International Center for Research on the Management of Technology Grant	1991	1998
International Motor Vehicle Program Research Grant	1991	1993
Leaders for Manufacturing Curriculum Devel. Grant (Sloan Foundation)	1990	1994
Digital Equipment Corporation Research Grant	1990	1992
General Motors Research Grant	1990	1991
National Science Foundation Technology Management Program Grant	1990	1992
Leaders for Manufacturing Research Grant	1989	1995
Leaders for Manufacturing Junior Faculty Grant	1988	1993

Professional Activities

Professional Memberships

American Society of Mechanical Engineers

Corporate Design Foundation

Design Management Institute

Design Society

Institute for Operations Research and Management Science

Institute of Electrical and Electronic Engineers

Production and Operations Management Society

Society of Concurrent Product Development

World Economic Forum, Councils on the Global Agenda

Recent Referee Activity

ASME Journal of Mechanical Design

Artificial Intelligence for Engineering Design, Analysis, and Manufacturing (AIEDAM)

California Management Review

CoDesign

Design Science

Design Studies

IEEE Transactions on Engineering Management

INFORMS-TMS, Best Paper Award

International Conference on Engineering Design

International DESIGN Conference

International Design Structure Matrix Conference

International Journal of Design Creativity and Innovation

International Journal of Product Development

Journal of Engineering and Technology Management

Journal of Engineering Education

Journal of Engineering Design

Journal of Modern Project Management

Journal of Product Innovation Management

Journal of Systems Science and Systems Engineering

Management Science

Manufacturing and Service Operations Management

MIT Press

NordDesign Conference

Operations Research

Organization Science

Production and Operations Management R&D Management Research in Engineering Design Sloan Management Review Systems Engineering

Leadership Activities

Harvard University MS/MBA 5-year Program Review Panel (2025)

University of Strathclyde Quinquennial Review Dept. of Design, Mfg. and Eng. Mgmt. (2022)

PICMET Fellows Judging Panel (2021)

Designs, Editorial Board (2018-)

IEEE Transactions on Engineering Management, Editorial Review Board (2017-2020)

INFORMS Technology Management, Innovation, and Entrepreneurship (TIME) Section, Best Paper Award Selection Committee (2016)

Portland International Center for Management of Engineering & Technology (PICMET) Advisory Council (2015-2021)

Journal of Modern Project Management, Editorial Board and Academic Editor (2013–2020)

Journal of Product Innovation Management, Editorial Board (2013–2014)

International Journal of Design Creativity and Innovation, Editorial Advisory Board (2012–)

University of Cambridge, Judge Business School, Board of Electors to the Margaret Thatcher Professorship of Enterprise Studies (2011-2012)

Tufts University, Gordon Institute, Industrial Advisory Board (2011-2017)

Electronic Colloquium on Design Thinking Research, Scientific Board (2009-2015)

Design Society Special Interest Group on Structural Complexity, Co-Chair (2008-2011)

International Journal of Engineering Management and Economics Advisory Board (2007 –)

Design Society Advisory Board (2007 - 2019)

CoDesign Editorial Board (2002 -)

International Journal of Product Development Editorial Board (2002 -)

Society of Concurrent Product Development Advisory Board of Directors (2001 –)

International Design Structure Matrix Conference, Founder and Advisory Board (1999 –)

Design Management Institute Research Advisory Council, Scientific Committee (1999 –)

Design Studies Editorial Board (1997-2016)

Manufacturing and Service Operations Management Editorial Board (1997-2004)

ASME Design Theory and Methodology Committee (1990-2010)

ASME Design Theory and Methodology Conf. Paper Review Coordinator (1992, 1996, 2002)

Management Science Special Issue on Design and Development Associate Editor (1998-99)

International Conference on Engineering Design Program Committee (1997, 1999, 2001, 2003)

TIMS/ORSA Boston Joint National Meeting (Product Development Cluster Chair, 4/94)

Subjects Taught

Number, Title, Semester(s)

15.783J, Product Design and Development (S91, S92, S93, S94, S95, S96, S98, S99, S00, S01, S02, S03, S09, S10, S12, S13, S14, S15, S16, S17, S19, S20, S21, S22, S23, S24)

15.782, Product Design Methods (S21, S22, S23, S24)

15.735, Product Design - EMBA Elective (W15, W16, W17, W18, W19, W20)

15.S72, Introduction to Product Management (S15)

ESD.36J, System and Project Management (F02)

SMA6306. Product Design and Development (F00, F01)

15.760, Introduction to Operations Management (S89, S90, S91, S92, S93, S94)

15.970, Special Module on Technology and Management (S90, F90, F91, F92)

15.785, Design for Manufacturing (F88, F89)

Thesis Supervision

Doctoral Theses Supervised

Alison Olechowski, June 2017.

"Essays on Decision-Making in Complex Engineering Systems Development"

Daniel Sturtevant, February 2013.

"System Design and the Cost of Architectural Complexity"

Anshuman Tripathy, February 2010.

"Work Distribution in Global Product Development Organizations"

Darian W. Unger, June 2003.

"Product Development Process Design: Improving Development Response to Market, Technical, and Regulatory Risks"

Jay Jootar, June 2002.

"A Risk Dynamics Model of Complex System Development"

Manuel E. Sosa R., June 2000.

"Analyzing the Effects of Product Architecture on Technical Communication in Product Development Organizations"

Maria Carrascosa, June 1999.

"Product Development Timing and Cost Analysis Using Information Flow Modeling"

Sharon Novak, June 1999.

"Sourcing By Design: Product Architecture and the Supply Chain"

Tyson Rodgers Browning, January 1999.

"Modeling and Analyzing Cost, Schedule, and Performance in Complex System Product Development"

Vikas Sharma, September 1996.

"A New Modeling Methodology Combining Engineering and Statistical Modeling Methods: A Semiconductor Manufacturing Application"

Viswanathan Krishnan, September 1993.

"Design Process Improvement: Sequencing and Overlapping Activities in Product Development"

Robert P. Smith, September 1992.

"Development and Verification of Engineering Design Iteration Models"

Masters Theses Supervised

Bonny Mahajan, May 2025

"Generative AI in Private Equity for Accumulative Advantage"

Brian Herrera, February 2024

"Cloud-Native Applications and Their Role in Supporting Agile Hardware Development"

Zoe Hinton, June 2023

"Enhanced Digital Capability through the use of Simulation in Footwear Product Creation"

Aidana Daulbayeva, June 2023 (reader)

"Behavioral Design for Emotional Intelligence: Leveraging Affective Computing in Medical Education for Improved Care for Substance Use Disorders"

Amit Galgali, May 2022

"Prototyping of Injection EVA Foam Footwear Midsoles"

Stephen Jeffrey Pickett, February 2022

"Applying the Design Structure Matrix to Streamline the Development Process: Lessons From Marine Renewable Development"

Daniel Reilly, June 2021

"Implementing Virtual Reality Based Digital Twins in Automotive Manufacturing"

Jonathan Marcus, June 2021

"Digital Strategy for Consumer Products"

Nithin Thekkupadam Narayanan, February 2021.

"Maximizing Value Creation in Agile Sprints"

Lisa Crofoot, May 2020.

"Management of Cross-Team Interfaces in Large-Scale Agile Development"

Ameneh Fadaie, May 2020.

"Exploration of Consumer Responses to Organic Food Pricing"

Javier Trevino Ruiz, May 2020.

"A Survey of Human-Centered Design Methodologies for a New Hybrid Approach in Product and Experience Innovation"

Siddharth Bajpai, February 2020.

"Planning Large-Scale Agile Development Using a Dependency Structure Mapping Model"

Andrea C. McClave, June 2019.

"User Experience Research for a Campus Food System"

Karen Cheng, June 2019.

"Sustainable Packaging Approaches Needed for Today's Emerging Waste Challenges"

Austin M. Page, February 2019. (reader)

"Technical Debt: The Cost of Doing Nothing"

Rajaram Srinivasan, February 2019.

"Analysis of DevOps in Complex Product-Service System Development"

Timothy Leonard Marguart, June 2018.

"Improving Design and Manufacturing Performance Through Advanced Visualization"

Amit Kumar Tomar, September 2017.

"Study of Scrum Framework Usage in Non-Software Systems"

Olawale A. Akinwale, February 2017.

"System Architecture Design of a Robust Heating System"

Tushar Garg, February 2017.

"Estimating Change Propagation Risk using TRLs and System Architecture"

Joseph Lessard, February 2017.

"Electronic Waste Recycling: Understanding the Ecosystem and Opportunities for Improvement"

Andrew J. Byron, June 2016.

"Qualification and Characterization of Metal Additive Manufacturing"

Nathan McMullin, June 2015.

"Value Creation through Intellectual Property Acquisition"

Rodolfo Reyes Luna, February 2015.

"Leveraging the Capacity of Human Capital in a Product Development Organization"

Jeremy M. Giese, June 2014

"Rugged Field Service Computing: A Product Development Case Study at Dell Inc."

Luis Armando López Avila, February 2014.

"Incorporating the Innovation Process in a Product Development Organization"

Anitha Balasubramaniam, February 2014.

"Financial Modeling of New Product Development Economics"

Andrew Oswald, June 2013.

"Understanding Technology Development Processes: Theory & Practice"

Toni J. Ferreira, June 2013.

"A Design Methodology for the User Interface of an Electromechanical Parts Database"

Joshua Przybylko, June 2013.

"The Applications of Autonomous Systems to Forestry Management"

Asif Iqbal, April 2013.

"A Study of Open Innovation and its Applications to product design"

Carlos Xavier Zamora Torres, February 2013.

"Engineering Work Breakdown and Assignment for Global Product Development"

Steven V. Bonelli and Adrian M. Gonzalez Guerra, September 2012.

"Application of the Design Structure Matrix (DSM) to the Real Estate Development Process using Modular Construction Methods"

Louis S. Grillon, June 2012.

"Creation and Sustainment of Manufacturing Technology Roadmaps"

Marcus Cullen Johnson, June 2012.

"Implementation of a Manufacturing Technology Roadmapping Initiative"

Kurtis McKenney, June 2012.

"Sustainable Approach to Achieving Energy Efficiency in Manufacturing Operations"

Jeremy Pitts, June 2010.

"R&D Project Selection: Best Practices for Suppliers"

Benjamin Bulloch and John Sullivan, September 2009 (reader).

"Application of the Design Structure Matrix (DSM) to the Real Estate Development Process"

Bradlev W. Rogers, June 2009.

"Understanding, Modeling, and Improving the Development of Complex Products: Method and Study"

David Margetts, June 2008.

"Improving the Manufacturing Yield of Investment Cast Turbine Blades through Robust Design"

Sabrina Chang, June 2007.

"Allocation of Engineering Resources to Global Sites Based on Coordination Cost and Project Structure"

Krishnan Raghunathan, June 2006.

"Productivity Improvement in Downstream EPC Projects using Value Streams based Organization"

Ying Pan, June 2006.

"Challenges and Rewards of Mechanical Platforming Strategy within Wireless Handset Industry"

Yonas Nebiyeloul-Kifle, June 2005.

"Application of the Design Structure Matrix to Integrated Product Development Process"

Jason T. Chen, June 2003.

"A Process for Improving Early Life Failure Response"

Lee Y. Koa, June 2003.

"Lean Principles, Behaviors, and Implementation Strategies for Automotive Product Design and Development"

Mack R. Lund, June 2003.

"Predicting Manufacturing Performance of New Radar Subassembly Designs"

Lincoln J. Sise, June 2003.

"A Lean Transformation in Low Volume Space Manufacturing"

Alberto J. Cividanes, June 2002.

"Optimal Scheduling of Design Reviews in Product Development"

Christopher Lance Durham, June 2002.

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