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Prof. Weigel has a dual faculty appointment in the Department of Aeronautics and Astronautics and the Engineering Systems Division at MIT. She is a member of MIT's Lean Aerospace Initiative, conducting research in the area of lean product development and systems engineering.

Dr. Weigel's professional experience includes three years supporting the Department of Defense, and two years working on Wall Street. As an engineer at Adroit Systems in Washington, DC she worked in support of the Department of Defense conducting system architecture design and trades studies for satellite communications, satellite operations, and launch vehicles. As a research associate at Lehman Brothers in New York City, she worked in the Aerospace and Defense sector and the Equity Strategy group.

Prof. Weigel teaches graduate courses in systems architecture, space policy, and technology and policy. She also teaches an undergraduate capstone project course in space systems design. She is affiliated with MIT's Lean Advancement Initiative (LAI), the MIT Space Systems Lab, and the National Center of Excellence for Aviation Operations Research (NEXTOR). Her research interests include aerospace systems design and architecting, innovation and change dynamics in the aerospace industry, and aerospace policy.

Dr. Weigel received an SB (1994) and SM (2000) in Aeronautics and Astronautics, and a Ph.D. (2002) in Technology, Management and Policy from MIT. She also received a second SB (1995) in Science, Technology and Society from MIT, and an MA (1998) in International Relations from the George Washington University. She is a member of the American Institute of Aeronautics and Astronautics, and the International Council on Systems Engineering.

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