

Angie Kelic

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Education	Massachusetts Institute of Technology Ph.D. Technology, Management, and Policy Engineering Systems Division Thesis: "Networking Technology Adoption: System Dynamics Modeling of Fiber-to-the-Home" Doctoral Committee: Charlie Fine, Vincent Chan, Dave Clark, Lee McKnight	Cambridge, Massachusetts June 2005
	Massachusetts Institute of Technology S.M. Aeronautics/Astronautics S.M. Technology and Policy Thesis: "Assessing the Technical and Financial Viability of Broadband Satellite Systems Using a Cost per T1 Minute Metric" Advisor: Daniel E. Hastings	Cambridge, Massachusetts June 1998
	University of Michigan B.S.E. Aerospace Engineering – Magna Cum Laude B.S. Political Science – With Distinction	Ann Arbor, Michigan April 1995
Skills	<ul style="list-style-type: none">- System dynamics modeling and analysis- Telecommunications industry analysis- General IT, system administration, and network security- Analysis of Congressional decision making	<ul style="list-style-type: none">- Supply chain analysis- Financial viability analysis- Satellite system engineering- Public policy evaluation
Experience	Massachusetts Institute of Technology Engineering Systems Division – Research Assistant <ul style="list-style-type: none">- Developed a computer simulation (system dynamics) model of fiber-to-the-home deployment and user adoption in conjunction with industry participants- Prepared written reports and gave presentations to industry consortium members- Compiled a data set of residential broadband availability at the community level for DSL and cable modem service- Created an economic decision model for deployment by incumbent and competitive carriers- Analyzed effects of cost structure and government funding on deployment and adoption- Studied effects of government policy and technology choice on fiber-to-the-home deployment- Examined deployment by municipalities and telecommunications carriers including rural, competitive, and incumbent local exchange carriers	Cambridge, Massachusetts September 2002 – May 2005
	Massachusetts Institute of Technology Information Systems – Residential Networking Supervisor <ul style="list-style-type: none">- Managed team of 35 student consultants that provided email and on-site networking and computer software support- Developed and taught biweekly training sessions on networking and network troubleshooting- Coordinated and planned network upgrades as part of a cross-functional team- Provided technical support to walk-in and phone clients- Developed and implemented long term equipment acquisition plan	Cambridge, Massachusetts September 2001 – present
	Massachusetts Institute of Technology Lean Aerospace Initiative – Research Assistant <ul style="list-style-type: none">- Collaborated in development of product development value stream map- Supervised development of web based value stream mapping tool- Researched development of technology roadmaps and roadmap use in technology insertion decisions in the aerospace industry- Conducted surveys on roadmap design and implementation with industry partners	Cambridge, Massachusetts January 1998 – May 2001

Lockheed Martin Missiles & Space Sunnyvale, California
Commercial Space Programs – Intern June 1997 – August 1997

- Refined a satellite system cost model to provide input to engineering decisions
- Designed a strategy for program implementation
- Assessed policy and customer status of proposed GPS augmentation system

Massachusetts Institute of Technology Cambridge, Massachusetts
Department of Aeronautics and Astronautics January 1996 – December 1997
 Teaching Assistant

- Created and taught systems engineering lessons
- Coordinated electronic distribution and collection of assignments
- Supervised development of final design document

Massachusetts Institute of Technology Cambridge, Massachusetts
Space Systems Laboratory – Research Assistant September 1995 – May 1997

- Assessed financial and technical viability of satellite broadband systems
- Supervised research project on Internet traffic patterns
- Presented results and prepared monthly written reports for industry sponsors
- Developed Internet market models and a cost performance metric for systems analysis
- Developed a corporate implementation strategy and assessed federal telecommunications policies
- Designed a small satellite constellation for space based radar

National Air & Space Museum Suitland, Maryland
Garber Restoration Facility – Intern June 1995 – August 1995

- Preserved and restored a B-29 aircraft for exhibit as part of a team of interns

Publications **Refereed Publications**
 Kelic, A. (2005) "Fiber-to-the-Home (FTTH) Technologies and Standards." In M. Paghani (Ed.), *Encyclopedia of Multimedia Technology and Networking*. Idea Group, Inc., Hershey, PA.

Kelic, A., Shaw, G. B., and Hastings, D. E. (1997) "Metric for Systems Evaluation and Design of Satellite-Based Internet Links," *Journal of Spacecraft and Rockets*, 35 (1), 73-81.

Refereed Conferences
 Kelic, A. "Government Policy vs. the Fiber-to-the-Home Supply Chain," System Dynamics Society 23rd International Conference, Boston, July 17-21 2005.

Honors
 Tau Beta Pi Junior and Senior Awards
 University of Michigan Outstanding Student Leader Award
 Tau Beta Pi - Engineering honor society
 Sigma Gamma Tau - Aerospace engineering honor society

Leadership
 Activities
 Budget Priorities Committee, Michigan Student Assembly – Chair
 Epeiians – Engineering leadership society – President
 Lecture Series Committee – Secretary; Projection Subdirector
 South Quad Dormitory Council – President
 Student Information Processing Board – Treasurer
 Tau Beta Pi – President; Vice-President of Membership

Professional
 Memberships
 American Institute of Aeronautics and Astronautics
 Sigma Gamma Tau
 Society of Women Engineers
 Tau Beta Pi