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Graduation Date: Summer 2007 (expected)
Massachusetts Institute of Technology

Doctoral Thesis Committee:
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Methodology

Screening for Real Options: Identifying “Hot” and “Cold” Spots

Identifying Options in a System:
- Entities in an engineering system are “Hot” if future states are likely to change and changes have significant upside or downside consequences
- Entities are “Cold” if the are unlikely to change and/or likely changes have insignificant consequences

Theoretical Contributions:
- Develop a framework for describing socio-technical systems that explicitly considers both social and technical details
- Develop methods and tools that allow for the examination of an evolving socio-technical system
- Develop a new methodology for identifying real options in a socio-technical system

Practical Contributions:
- Demonstrate how to integrate Real Options Theory with SE Methods
- Demonstrate how Real Options Thinking can be applied to weapon system development programs

Methodological Contribution:
- SE-Tailored Grounded Theory approach—demonstrate the advantages of integrating qualitative coding with systems engineering methods

Books:

Papers and Presentations


US Air Force acquisitions officer with experience as a systems engineer and an integrated product team lead at the F/A-22 System Program Office at Wright-Patterson Air Force Base in Dayton, Ohio

Prior to MIT served as an Assistant Professor of Engineering Mechanics and Director of Systems Engineering at the US Air Force Academy in Colorado Springs, Colorado

Academics:
- BS Mechanical Engineering, Marquette University
- MS Systems Engineering, Air Force Institute of Technology