



## Francesca M. Favarò

### PSAM12 Speaker Bio

### BE, ME, ME

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**Short Statement:** First author and speaker.

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#### BIOGRAPHY

Mrs. Favarò is a PhD student in the Aerospace Engineering at Georgia Institute of Technology. She earned a BE and ME in space engineering at Politecnico di Milano (Italy), and an ME in aerospace engineering (with a minor in mathematics) from Georgia Institute of Technology.

Mrs. Favarò authored and co-authored multiple journal papers on accident causation and system safety and is the recipient of the Amelia Earhart Fellowship for 2013.



#### SELECTED PUBLICATIONS:

**Favarò, F. M.**, Jackson, D. W., Saleh, J. H., Mavris, D. N. “Software contributions to aircraft adverse events: case studies and analyses of recurrent accident patterns and failure mechanisms” *Reliability Engineering and System Safety*, Vol. 113, pp. 131-142, 2013.

Saleh, J. H., Haga, R. A., **Favarò, F. M.**, Bakolas, E. “Texas City Refinery Explosion: Case Study in Breakdown of Defense-in-Depth and Violation of the Safety-Diagnosability Principle”, *Engineering Failure Analysis*, <http://dx.doi.org/10.1016/j.engfailanal.2013.09.014>, 2013.

Saleh, J. H., Saltmarsh, E., **Favarò, F. M.**, Brevault, L. “Accident precursors, near misses, and warning signs: critical review and formal definition within the framework of Discrete Event Systems”, *Reliability Engineering and System Safety*, 2013.

Foreman, V., **Favarò, F. M.**, Saleh, J. H. “Software in military aviation and drone mishaps: analysis and recommendations for the investigation process”, Pending publication in *Reliability Engineering and System Safety* - reviewed in January 2014.

Saleh, J. H., Marais, K. B., **Favarò, F. M.** “A Synthesis of System Safety Principles: Multidisciplinary Engineering Perspectives”, Pending publication in *Journal of Loss Prevention in the Process Industries*, accepted in April 2014.

**Favarò, F. M.**, Sirignano, W. A., DeLuca, L. T., Manzoni, M. “Solid Fuel Regression Rate Modeling for Hybrid Rockets”, *Journal of Power and Propulsion*, Vol. 29, No. 1, pp. 205-215, 2012.