



**The Institute of Electrical and Electronics Engineers
(IEEE)**



Galveston Bay Section Meeting

Organized by Computer Society and Joint Societies Chapters

March 28, 2019 (Thursday) Luncheon Meeting

TOPIC: “Software Probability Risk Assessment (PRA) in Safety Critical Software”

Speaker: Mr. Adam Mullins, International Space Station (ISS) Safety PRA Analyst

Abstract:

We will begin with a brief history of Probabilistic Risk Assessment (PRA), noting its inception in the nuclear industry after the Three Mile Island accident near Harrisburg, PA in 1979. Next, the presentation will move into how NASA uses PRA to assess risk on the International Space Station while making informed risk decisions better managing resources. As systems rely more and more on a software component, the need to assess software risk is needed for these complex systems. Finally, we will round off the discussion with the current academic and industry efforts to assess software risk through quantitative methods.

Speaker Bio:

Mr. Mullins is originally from a small town in rural Northwest Ohio. After high school, he attended Ball State University where he graduated summa cum laude with a Bachelor of Science in Mathematics and minor in Computer Science. During his time at Ball State, he worked as an upper level mathematics tutor and research assistant to Dr. Dan Rutherford in the field of Topology. He completed his senior year at Ball State remotely while simultaneously completing two internships in NASA JSC’s International Space Station (ISS) Safety and Mission Assurance Directorate. Mr. Mullins now resides in Webster, Texas where he continues to work in ISS Safety as a Risk Analyst performing Probabilistic Risk Assessments.

University of Houston Clear Lake, Delta Building, Room D234

Interested non-IEEE engineers, technicians, scientists, IEEE Members and guests alike are welcome!

11:30 PM – 1:00 PM - Program and Q&A

11:30 AM – Complimentary Lunch Pizza (RSVP highly appreciated)

Please RSVP to Mr. Alan Currie at j.a.currie@nasa.gov, Before Noon Tuesday March 26, 2019

FREE PARKING: If you do not have valid UHCL parking permit, FREE PARKING TICKET will be provided, please come a little early if possible. Parking map on the next page.

PARKING MAP: Visitors must parking in one of the visitor parking lots. For visitors, **Lot J** and **Lot G** have easy access to Delta building, where the IEEE meeting will be held. **Free parking ticket** will be available at the meeting.



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