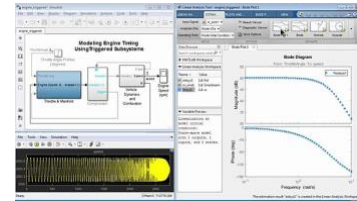


A School of Engineering Seminar



College of
Science & Engineering



Speaker:

Terry Denery, Ph.D.

*Principal Application
Engineer at MathWorks*



Simulink Expert Dr Terry Denery continues his seminar series at SFSU

Model-Based Design: Simulation to Real World

Synopsis:

Model-Based Design with MATLAB/Simulink provides a mathematical and visual approach to develop complex systems. It provides a common language for cross-functional teams that work in mechanics, electronics, controls, software, etc. The teams develop models of motors & drives, mechanical linkages, electronics boards, algorithms, and various other components. It is in the Simulink system models that components are brought together, and interfaces and requirements are defined. Through the simulation in Simulink, system dynamics are understood, and component design iterations advance rapidly.

Session Details:

1. Simulating Mechatronics Systems
2. Developing Controls
3. Generating Software for Arduino from Simulink Models
4. Test Control on Arduino

Please bring your great questions – we are looking forward to an interactive session!

Supporting Videos:

[Introduction to Simulink for Electro-Mechanical Product Design](#), and [Controlling DC Motor with Arduino Hardware](#)

Date:

*Wednesday, March 1, 2023
11 am -12 pm*

Place:

In-person:

[SFSU HSS Building 362](#)

Online:

[Zoom Link](#)

Meeting ID: 848 0245 7883
Passcode: 2023

Speaker Bio:

Terry Denery, Ph.D. Prior to MathWorks, Terry developed rocket motors at Hercules Aerospace (Now Aliant Technologies) and focused deeply on mechanical design and analysis at MSC, supporting use of products like ADAMS, Working Model, and visual NASTRAN. Since joining MathWorks in 2004, Terry has met thousands of engineers to discuss control design and modeling electro-mechanical devices. Education: Ph.D. in Aeronautics/Astronautics, Stanford University; B.S. in Chemical Engineering and M.S. in Mechanical Engineering, University of Virginia. Please see Terry's presentations [here](#) or [on YouTube](#) in the area of Mechatronics, Robotics and Control. Terry's LinkedIn page: [Link](#)

For more information, please contact Dr. Azadi azadi@sfsu.edu