

Steven E. Squier, MS

Steven E. Squier, MS, Research Engineer, Hamilton Sundstrand Aerospace, initiated, developed and continues to promote a computer-aided systems engineering approach to analysis of aircraft subsystems, primarily using Excel. His 26 years of aerospace industry experience at Hamilton Sundstrand and Rockwell International have been primarily focused on the evaluation of vehicle-level system performance impacts due to subsystem design variations. He holds several patents in diverse areas of systems engineering and has experience in electric power, environmental control, thermal analysis, hydraulics, pneumatics, reliability, statistical and uncertainty analysis, neural networks and life cycle costing. As part of the Advanced Systems group within Hamilton Sundstrand, Mr. Squier has conceived and created several custom engineering applications incorporating intuitive graphical user interfaces all within the Microsoft Excel environment, and often coupling Excel with other applications. He has applied the concepts taught in this course to the evaluation of advanced subsystem integration schemes for many commercial and military aircraft platforms, most recently the Boeing 787 Dreamliner and Joint Strike Fighter. Mr. Squier has developed Excel/VBA applications not only for engineering analysis, but also for technical data management, facility/test build configuration documentation (combined with Microsoft Visio as a graphical front end) and automated status reporting of certification testing. Mr. Squier is also an Assistant Professor in the Physical Science Department at Rock Valley College in Rockford, IL, and a former Dean of Liberal Arts and Sciences.

Steven E Squier is an instructor for:

Engineering Analysis and Automation using Excel and VBA