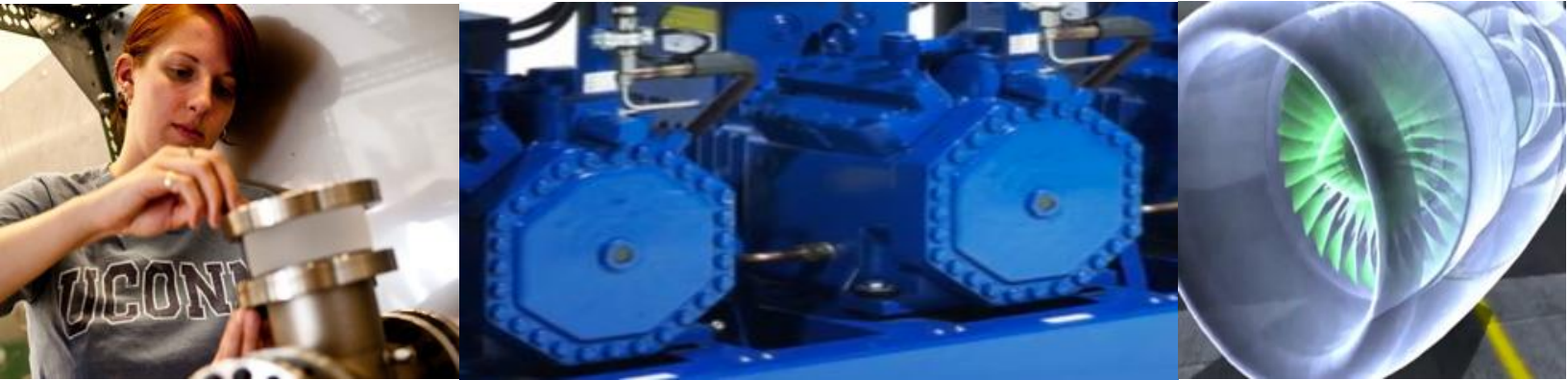


## UTC Institute for Advanced Systems Engineering Seminar Series



Thomas Gietzold  
United Technologies Building and Industrial Systems

### SWITCH ELEMENT SELECTION

Friday, May 16, 2014

4:00 – 5:00 p.m.

Storrs Campus, UTEB 150

**Abstract:** An overview about a process to select switches for power electronics applications. In this seminar we will discuss a basic topology and its impact on switch rating voltage and switch rating current. We will look into how switch losses are determined and give an introduction to heat removal with a conclusion that gives the first steps into switch selection.

**Speaker Bio:** Thomas Gietzold is UTC engineering fellow and manager of the power electronics group within the United Technologies Building & Industrial Systems organization. After studying electrical engineering at the Technical University Berlin, Germany, Thomas joined Otis elevator in 1990 as an electrical engineer for a remote elevator monitoring system. Shortly after, he became a member of the newly formed drives design group, which brought him over to the US. Thomas worked at Infineon and joined the Carrier organization in 2007; he was appointed UTC Fellow in 2012.