



## EST PRESENTATION

### ENGINEERING SAFE MOBILE SYSTEMS

#### The omnipresent challenge for automotive engineering

**Brief Description:** A broad interpretation of functional safety is that safe machines are required to be engineered not to harm people, property, or the environment in such a way that this causes harm to people. A rigorous demonstration that a mobile system, such as a car, is safe while operating in urban traffic is an exercise of empirical science - a demonstration that the hypothesis *the car is not unsafe* holds. A single test with a negative outcome is required to declare a car unsafe. This seminar will posit that rigorous empirical testing of vehicles in urban environments can only be achieved using high fidelity models of vehicles – including non-autonomous and autonomous driver models - in large-scale simulations. And show the ecosystem of models, simulators and tools available to make the engineering of safe mobile systems a reality and not just a marketing slogan.

**Presenter:** Dr. Graham Hellestrand, CEO & Founder, Embedded Systems Technology, Inc.

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