



**MARK KIMBROUGH**  
 INDUSTRIAL DESIGN PROFESSOR  
 SPARK! INTERNATIONAL DESIGN AWARD  
 WEARABLE TECHNOLOGY CATEGORY

Mark Kimbrough has been honored with a Spark! Award in the wearable technology category. Mark along with a team from Umbach Consulting were recently honored for their design of the new Cardionics SimShirt. The garment is worn by standardized patients for simulating physiological conditions to teach and examine healthcare/medical student's diagnostic and procedural skills for listening to sounds from the heart, lungs, or other organs. Typically this type of training is done with a stethoscope as a part of a medical diagnosis. The SimShirt integrates sensors into a tight-fitting shirt in anatomically correct locations in order to provide a more realistic learning experience. Professor Kimbrough's design was also an **International Design Excellence Award** finalist.

