UNIVERSITY of HOUSTON | ENGINEERING

Department of Biomedical Engineering

Seminar

Wearable tech and its clinical applications

Friday, December 9, 2016
SEC 204: 12-1PM

Bijan Najafi, PhD
Professor
Department of Surgery
Baylor College of Medicine

Abstract: The growing use of embedded wearable devices is spawning a massive industry geared to various clinical applications, offering potential benefits to everyone from the newborn infant to the infirm elderly. In particular, healthcare reform will likely accelerate growth in this area for cost-effective cares. Wearable tech has already been used in many cost effective cares stems from allowing people to take control of their own health to allowing doctors to give better care without spending more time with patients. The speaker will overview some of the achievements and relevant researches in the area of wearable tech at the Baylor College of Medicine, Interdisciplinary Consortium on Advanced Motion Performance (iCAMP).

Bio: Prof. Najafi is currently serving with the Baylor College of Medicine, Department of Surgery as a tenured Professor, Director of Clinical Research in the Division of Vascular Surgery, and Director of Interdisciplinary Consortium on Advanced Motion Performance (iCAMP). He completed his Ph.D. in Bioengineering followed by a Postdoctoral Fellowship in Biomechanics at the Swiss Federal Institute of Tech and in Neuroscience at Harvard University. He has almost two decades of experience in

designing bio-inspired sensors for objective evaluation of healthy state of patients with locomotor dysfunctions, over 200 scientific publications in peer reviewed journals or conference proceeding, seven issued patents and 10+ pending patents, and have been Principal or a key investigator on over 50 industrial, national and international grants. He worked with a wide network of clinical and bioengineering collaborators across the globe primarily in the clinical areas of falls, frailty, gait, cognitive impairment, diabetes, wearable and digital health. He received multiple prestigious awards including the Influential Health and Medical Leaders award in the category of achievement in designing medical devices by Tucson Local Media.