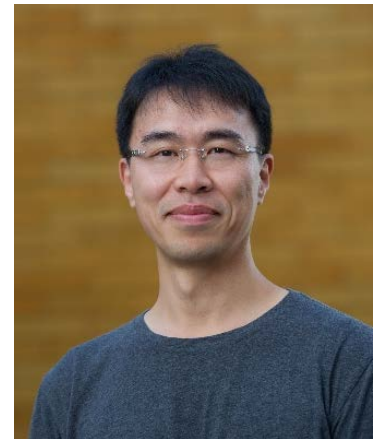




How to apply creativity and innovation toward currently unmet clinical needs

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ABSTRACT

Dr. Yoon's research interests focus on the design and development of mechatronics systems and their applications in biomedical devices. He will introduce his current research at the Smart Medical Devices Lab, including a few on-going research topics: 1) multi-modal medical diagnostic devices, 2) minimally invasive surgical robotics and smart user interface, and 3) assistive technologies. His research is topical and characterized by a strong interdisciplinary focus and targets for more practical and applicable engineering solutions in medical device applications. He will also discuss about how to apply creativity and innovation in the research toward currently unmet clinical needs, especially targeting for UW ME graduate students.

SPEAKER BIO

Dr. Jong Yoon is an associate professor in Mechanical engineering at the University of Washington Bothell. Dr. Yoon obtained his B.E. degree from Hong Ik University, Seoul, in 1995, and the M.S. and Ph.D. degrees from the University of Washington, Seattle, in 2004 and 2009, respectively, all in mechanical engineering. Prior to joining UW Bothell School of

STEM, he held an appointment as an assistant professor in the Department of Mechanical & Industrial Engineering, Qatar University, Qatar, from 2009 to 2014. From 1997 to 2001, he was with Samsung Electro-Mechanics, Korea, as a research engineer and designed various precision motors for information and optical devices.