

## Dr. Reza Ghodssi



Reza Ghodssi is an Associate Professor and the Director of the MEMS Sensors and Actuators Lab (MSAL) in the Department of Electrical and Computer Engineering (ECE) and the Institute for Systems Research (ISR) at the University of Maryland (UMD). He is also affiliated with the Fischell Department of Bioengineering, the Maryland NanoCenter, the University of Maryland Energy Research Center, and the Materials Science and Engineering Department at UMD. Dr. Ghodssi's research interests are in the design and development of microfabrication technologies and their applications to microsensors, microactuators, and integrative microsystems for biosensing and energy harvesting. At Wisconsin, his Ph.D. thesis was focused on development of a high aspect ratio microfabrication process for an electrostatic driven MEMS device using x-ray lithography and LIGA technology. At MIT, he developed the building block MEMS fabrication technologies for a microturbine generator device, and also served as an Assistant Director on that project. At Maryland, his research group has pioneered the development of next generation PowerMEMS devices using micro-ball bearing and MEMS-based gray-scale technologies and the use of novel III-V optical MEMS devices and systems for chemical and biological detection. Dr. Ghodssi has over 50 scholarly publications and was recently selected as an editor of the "Handbook of MEMS Materials and Processes" to be published in 2009. He has received the 2001 UMD George Corcoran Award, the 2002 National Science Foundation CAREER Award, and the 2003 UMD Outstanding Systems Engineering Faculty Award. Dr. Ghodssi is the co-founder of MEMS Alliance in the greater Washington area and a member of the IEEE, AVS, MRS, ASEE and AAAS societies.