



**Name:** SUDHANSHU SHEKHAR

**PhD Institution and Year:**

Electrical Communication Engineering, Indian Institute of Science, 2016

**Date of Joining IISc:** 31<sup>st</sup> July, 2007

**Area(s) of Research:**

Micro-Electro-Mechanical Systems (MEMS), RF MEMS, BioMEMS, Micro/Nano Processing Technology; Mechanical, Electrical, and Optical Characterization of N/MEMS Devices

**Name of the Post-doctoral Fellowship:**

Project funded by the Robert Bosch Centre for Cyber-Physical Systems (RBCCPS) at IISc  
(**Project:** A Bio-CPS approach to understand gut-biology (CyberGut))

**Laboratory where currently working:**

M2D2 Lab (Multi-Scale Multi-Disciplinary Laboratory)  
with Professor G. K. Ananthasuresh

**Department:** Mechanical Engineering

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**Research Publications in IISc:**

**Sudhanshu Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Surface-micromachined Capacitive RF Switches with Low Actuation Voltage and Steady Contact”, in IEEE Journal of Microelectromechanical Systems, (DOI: 10.1109/JMEMS.2017.2688519).

**S. Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Design, Fabrication, and Characterization of Low-Actuation Voltage Capacitive RF MEMS Switches”, in IEEE MTT-S International Microwave and RF Conference (IMaRC 2014), (DOI: 10.1109/IMaRC.2014.7038983; Best Paper Nomination).

**S. Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Switching and Release Time Analysis of Electrostatically Actuated Capacitive RF MEMS switches”, in Sensors & Transducers, Vol.130, Issue 7, pp. 77-90, July 2011.

**S. Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Reliability Analysis of Low Actuation Voltage Shunt-Capacitive RF MEMS Switches”, in Proc. of International Conference on MEMS and Sensors (ICMEMS), Dec. 2014.

**S. Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Design and Fabrication of High Isolation Low Pull-In Voltage Shunt-Capacitive RF MEMS Switches”, in Proc. of ISSS International Conference on Smart Materials, Structures and Systems, July 2014.

**S. Shekhar**, K. J. Vinoy, and G. K. Ananthasuresh, “Switching and Release Dynamics of an Electrostatically Actuated MEMS Switch under the influence of Squeeze-film Damping”, in Proc. of NSTI, Nanotech Conference & Expo, Microsystems Modeling and Simulation - MSM 12, CA, USA, June 2012.

**Other accomplishments and recognition while in IISc:**

**What information will be useful to post-docs if it is available on the post-doc page on the IISc Website ? List the items-.**

Research interests, Publications with a short-bio data will be good

**A tweet about your post-doctoral experience in IISc:**