Photonic MEMS
ME 498-PM4

In this course students will learn about the ways in which light interacts mechanically with photonic microsystems (i.e. via radiation pressure, gradient force, electrostrictive pressure, and photothermal effects), and how mechanical systems can affect and manipulate light. We will also discuss how optically and mechanically resonant micro/nanodevices can enhance such nonlinear optical interactions. Some prior exposure to electromagnetics, fourier analysis, and vector calculus is strongly recommended.

Schedule: Tues/Thurs 10am-11:50am, Location TBD
Instructor: Prof. Gaurav Bahl, 4413 Mechanical Engineering Laboratory
Contact: bahl@illinois.edu
Office hours: TBA and by appointment.
Prerequisites: PHYS 212 and/or PHYS 214, equivalent coursework, or consent of instructor.