MECH 6308 - Haptics and Teleoperated Systems

MECH 6308 Haptics and Teleoperated Systems (3 semester credit hours) This course presents an introduction to haptic systems for virtual environments and teleoperation. Course topics include: human haptics, haptic devices (design, dynamics, control, and rendering), tactile haptic displays, and teleoperation (implementation, transparency, and stability). The course will include a laboratory component, as well as a final hands-on design project. The course is also designed to improve reading and understanding of academic papers related to haptics and teleoperation, as well as to improve individual presentation skills and team-work. Prerequisites: MECH 3350 or equivalent and MECH 4310 or equivalent. (2-3) R