Peace and Engineering: Linking outcomes to engineering practice

Course Overview:

Creating peace or recovery from violence have challenged humans for eternity. For most of history, the role of engineers in either was limited. In recent decades, engineering has become more and more relevant in avoiding violence and the recovery from violence. I was asked by the United States Institute of Peace to lead an effort to bring engineering principles and thinking into the domain of diplomacy in a modern context (internet, power systems, infrastructure, water, etc.). It is a complex cross-section of social systems and engineering systems.

In this class, we will focus on: *systems thinking, project management, natural resource concerns and diplomatic processes* (through assistance from the United States Institute of Peace).

Expectations:

Active participation in class
Frequent short writing assignments (1 to 2 paragraphs at most)
Team project

Grading:

Participation in class or in out of class meetings (20%)
Writing (40%)
Team Project (40%)