

**MS&E 315 and CME 304**  
**NUMERICAL OPTIMIZATION**  
**Class Project**

Consider the location of the nodes of a square steel net when it is suspended from the corners. The elements of the net are composed of rods of unit length and the nodes are universal joints. You need to pose the position of the nodes of the net as an optimization problem and write an algorithm to find it them. As part of the homework you will be given the task of writing modules of the algorithm needed to solve the problem. The formulation of the problem is not unique and it may be posed as different types of optimization problem.