The goal of this first project is to build a collection of examples of practical optimization problems. The collection will be used to motivate ideas in this and future versions of the course.

Each student should prepare two examples of optimization problems. Marks will be given purely for completion of each example, i.e. half marks for one example, full marks for two examples.

The examples can be pulled from

- Personal experience or research.
- Textbooks on optimization. (one can be found at http://www.stanford.edu/~boyd/cvxbook.html)
- Articles in journals dedicated to optimization.

Each example should be approximately two pages in length, typed up neatly so that it can be inserted in a binder for everyone’s use. Each example should, first and foremost, describe a problem in optimization together with the context in which it arises. If there is additional space, some indication should be given of what aspects of our course might be important in studying the problem.