**Project Management**

* Project
  + Temporary endeavor undertaken to create a unique product or service
  + Unique purpose
  + Temporary
  + Require resources, often from various areas
  + Should have a primary sponsor and/or customer
  + Involve uncertainty
* Advantages
  + Better control of financial, physical, and human resources
  + Improved customer relations
  + Shorter development times
  + Lower costs
  + Higher Quality and increases reliability
  + Higher profit margins
  + Improved productivity
  + Better internal coordination.
* Project Manager
  + Planning, Procurement, and execution of a project
  + Is expected to coordinate the integrate all activities needed to reach the project’s goals
  + The project form of organization allows the manager to be responsible to:
    - The client and the environment
    - Identify and correct problems at an early date
    - Make timely decisions about tradeoff between conflicting project goals
* Project Lifecycle
  + There are many models, but we’ll see the most basic one: The Waterfall model
  + Typical steps in CS projects include: Inception, Requirements, Analysis, Design, Implementation, Testing, Debugging, Production, distribution and Maintenance.
  + The PM is responsible for organizing these steps properly