**What Is Software Engineering And Why Is It Useful ?**  
***Software Engineering***  
The term software engineering (in English) is the set of methods, techniques and tools used in production of software, beyond the single programming activity.

The choice of the term "engineering" to me refers directly to that of civil engineering, designating the art of construction.  
  
 Indeed, to build an architectural work, the mere fact of laying brick and cement is not enough. The construction of a building as a whole includes architectural design, masonry, plumbing and electrical activities that need to be coordinated in order to gain control over time and budgets.

**Software engineering** therefore includes aspects of project management in order to produce software in a **timely manner**, with a **controlled budget** and **satisfying the customer**.  
  
***Why Is Software Engineering Useful ?***The main objective is to reduce the cost of development while increasing its speed and efficiency.  
  
The real need generally expressed is that of a process that accurately measures user requirements. An effective software engineering process enables an organization to increase its productivity during software development for several reasons. (Not a topic for today)  
  
It’s not only about writing code, it’s about everything that goes into making a product and knowing those principles and practices that can help you make a better product