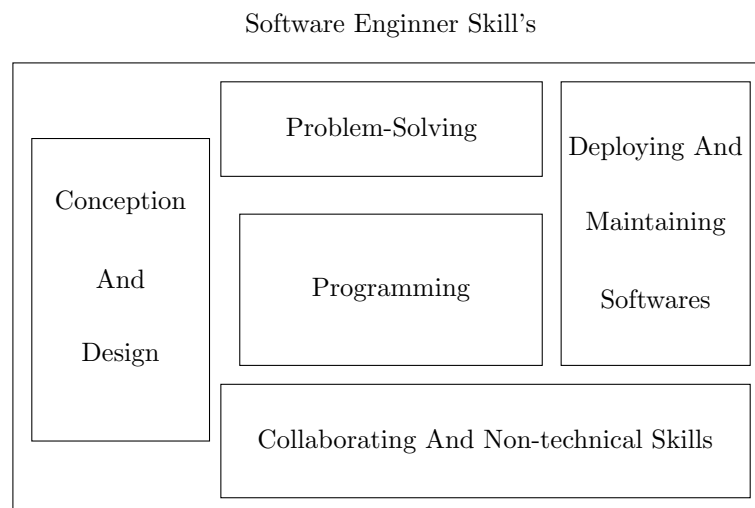# 1 Introduction

1.1 What's Software Engineering?

Software Engineering is a branch in the field of Computer Science that revolves around designing, testing, coding, and maintaining high-quality software while being able to understand the needs of the client.

1.2 What's the Difference Between a Programmer and a Software Engineer?

People often confuse a programmer with a software engineer. While it is true that both write code for software, a software engineer is a step ahead of the programmer. Not only does the engineer program, but they also possess non-technical skills that allow them to understand and guide the client according to their needs, create the architecture of the software, and apply various techniques and methodologies for well-structured software. In other words, a programmer $\subset$ software engineer.

Software Enginner Skill's

2 Software Crisis

2.1 Birth Of Software Enginner

2.2 Qualities Of A Software

3 Life Cycle Of Software

3.1 Whats's Life Cycle Of Software?

3.2 WaterFall Life Cycle