# Master of Applied Computing

COMP-8117

Advanced Software Engineering Topics

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## Individual Report

For this individual report, you're required to think about the content of the course and your future career. Advanced Software Engineering Topics is designed to teach you different skills and techniques used in software engineering in medium-sized and big-sized companies. However, software engineers in companies may have different roles.

In this individual report, we ask you to think your professional project. Especially, your report must analyze and compare the theoritical practices taught in the course with the different practical practices in industry (based on the workshops you attended during the term, event keynotes like MS keynotes, Apple keynotes...).

Especially, you must build a reasoning around the following questions :

- What is software engineering and why software engineers are important ?
- Is software engineering really needed to produce (industrial) software ?
- What are the advantages and drawbacks of software engineering ?
- What is the goal of Software Engineering ? In which domain Software Engineering might be useful ? Do you think that Software Engineering should really exist ?
- What is the different possible roles in theory of software engineers ? In practice ?
- What is the difference between software engineers and software developers ?
- What are the key (main important) aspects of software engineering ?
- In your opinion, what do researchers in software engineering ?
- Based on your previous experience, what did you learn in this course ?
- Given the information you got about software engineering, in your opinion, which role fits the best to your personality and skills, and how would you implement your career path ? In which domain would you like to work ?
- In your opinion, what point(s) was not talked in the course and might be important in software engineering ?

Use the project you made during this course to illustrate your assumptions.

*Instructions*

For this report,

- Write a story in which you explain and answer all the questions. This story should be enough popularized to be understood by a non-technical audience. (5-10 pages maximum).

The report counts for 5 points, + up to 5 points extra (based on the quality of the reasoning, and the clarity of your career project).