

Department of Computer Science and Engineering
College of Engineering, University of Nevada, Reno

CS 425 Software Engineering

Assignment #1

September 5, 2013

Due: Friday, September 13, 2012, 5:00 p.m. (by email to dascalus@cse.unr.edu, single PDF file named **SE_A1_YourLastName**)

Points: 75

Weight in course grade: 5%

1 [*Possible project idea*]

Give an example of a software product that you, as an entrepreneur and/or project manager would like to develop with a group of 3 or 4 software engineers working under your supervision. Describe this software product and explain why it would be innovative and useful. Indicate its target users and outline its main functions and capabilities (features). Briefly describe the origins of your software product idea and compare your proposed solution with (quasi) similar products already available on the market or as open-source software [600-1000 words in total]. [35 points]

2 [*Software engineering and your professional career plans*]

Indicate 3 types of computer science and engineering (CSE) related activities that you would be interested to pursue in your professional career and briefly explain how your knowledge of software engineering could be beneficial to them [60-120 words each]. [15 points]

3 [*Software quality*]

Consider a software application or tool that you are familiar with (e.g., a spreadsheet program, a GUI builder, a web-based application, a computer game, etc.), describe the purpose of the application or tool, and give 3 examples of its functions or capabilities (features) that demonstrate good quality. Briefly explain why you think these are examples of good quality software. Also, give 2 examples of this software tool's functions or capabilities that could be improved; briefly suggest ways to improve them. [25 points]

Note on submission:

- Remember that this is an *individual assignment*, not a team work.