Exercise 2

Comparison of life cycle models

Consider the Systems Development Life Cycle (SDLC) as described in Wikipedia [1] and compare it to the life cycle description for safety-critical systems, as specified in IEC 61508-1 [2].

- 1. Identify how the SDLC described in [1] is embedded into the life cycle [2]. Are there activities in [1] which do not fit into [2]?
- 2. For each activity of [2] which is not identified in [1]
 - give a reason why it only occurs in [2],
 - give an example of a general purpose system which is not safety-critical, but where the system development could benefit from this activity only occurring in [2].

References

- [1] Wikipedia, The Free Encyclopedia, "Systems Development Life Cycle," 2009, accessed 3-Nov-2009. [Online]. Available: http://en.wikipedia.org/wiki/Systems_Development_Life_Cycle
- [2] DIN Deutsches Institut für Normung e.V. und VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V., "EN 61508-1 Funktionale Sicherheit sicherheitsbezogener elektrischer / elektronischer / programmierbarer elektronischer Systeme, Teil 1: Allgemeine Anforderungen."

Submit your essay to florian(at)informatik.uni-bremen.de and hand in a printout in the session at thursday, 19th of November.