



BOMBARDIER

Master's Thesis:

Fault slip through analysis

Background

Because we are developing high availability safety critical applications it is important to have good feedback mechanisms to know which type of defects that slip through our current testing efforts. Today we do not measure this on a regular basis. Therefore, it would be a good initiative to identify which and how many of our known defects that slip through our current test activities of component testing, sub-system testing, system testing and to the customer.

Objective

To analyze and measure which defects that slip through our current test activities and to the customer.

The project will consist of the following tasks:

1. Do a defect analysis of found defects in component testing. Also identify which defects that are found later that should have been able to find in component testing.
2. Do a defect analysis in the same way on sub-system level, i.e. to identify found categories of defects and which defects that slip through to a later phase or to the customer.
3. Do a defect analysis on system level to identify which types of defects are found and which defects slips through to the customer.
4. Make a conclusion of all defects found by the customer to identify where they should have been found earlier.

Application

Prerequisites: Good analytical ability and complex system knowledge. Knowledge in software test techniques and root cause analysis is also valuable.

For more information, contact

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