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Software Reliability: Tools and Practices in the real world of Software Development

Physicists and engineers often end up writing their own software for the particle accelerator industry. While this has the benefit that their practical know how gained in the industry is immediate, they undergo the trouble of finding out the difficulties of software development through trial and error.

We present an expose of tools and methodology for improving software reliability from a professional software development standpoint using the Particle Accelerator E Logbook as an example.

The expose covers best practices for Design Processes, Development Processes and Standards, Testing and Quality Assurance Methodology, Automated Testing, Reporting and Support Issues highlighting pitfalls and sharing lessons learned.

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