ARW ⬚2024
Accelerator Reliability Workshop
MAX IV and ESS are Excited and Pleased to Announce their Joint Hosting

Contribution ID: **1**   Type: **Oral**

Developing Reliable and Maintainable High Level Applications

Monday, 24 June 2024 10:30 (30 minutes)

The SLAC National Accelerator Laboratory Linac and FEL Division has recently commissioned a new MHz repetition-rate superconducting free-electron laser. This has necessitated upgrading/expanding the functionality of a wide variety of software and developing entirely new software. Such an effort has exposed a number of difficulties related to working with the software infrastructure we have built up over many years. As a result, we are making significant changes to how we develop and release software in hopes of producing a more robust, maintainable, modular and understandable software ecosystem. Specific efforts, best practices and results will be discussed.

Primary author: ZIMMER, Christopher (SLAC National Accelerator Laboratory)

Presenter: ZIMMER, Christopher (SLAC National Accelerator Laboratory)

Session Classification: Reliability during Procurement, Installation, Commissioning, and Upgrades