

**Joint Electronics Forum,
Industrial Controls Forum &
RASWG meeting (#4)**

Report of Contributions

Contribution ID: 2

Type: **not specified**

Introduction to formal methods and an Industrial Controls use case

Thursday 9 December 2021 09:00 (30 minutes)

- What are/ Where can we apply/ When should we apply formal methods?
- Why they are not very popular in certain industries (yet)?
- Industrial Controls domain (BE-ICS):
 - Formal Verification (model checking) of PLC programs
 - Formal Specification of PLC programs

Presenter: FERNANDEZ ADIEGO, Borja (CERN)

Contribution ID: 3

Type: **not specified**

A digital electronics design use case and general conclusions

Thursday 9 December 2021 09:30 (30 minutes)

- Digital Electronics design domain (HSE-RP)
- Formal Verification (model checking) of HDL designs
- Semi-formal specification of requirements for HDL designs
- Conclusions

Presenters: BOUKABACHE, Hamza (CERN); CEESAY-SEITZ, Katharina (CERN)