



**Name:** ESR4.1 Felipe Augusto da Silva  
**IRP title:** **EDA tools and methodologies for reliable nanoelectronic systems**  
**From:** CDN  
**To:** PDT  
**Period:** October 14 – October 24, 2019

### Activities during the secondment

- **Scope and objectives:**  
Improvements on current collaborations with ESR2.3 Aneesh Balakrishnan (iROC). Support fellow PhD Candidates with AutoSoC activities.
- **Activities:**  
Definition of functional requirements for the General-Purpose GPU. Based on the findings, elaborate a formal environment for detection of Functional-Safe faults.
- **Main results achieved**  
The developed formal environment allows a considerable improvement on the results previously published. Result are being analyzed for a second publication on the subject.
- **Next steps**  
Analysis of results and definition of strategy for publication.
- **Optional request for support or a technology/tool available at host:**  
NA

### Self-evaluation

**Overall score:** 5

*I consider this secondment successful, with regards to the research objectives achieved, skills developed, supervision quality, diversity of the resources. (Agree = 5 ... Disagree = 1)*

**Optional comments:** None

*Date of the report approval by the supervisor: December 04, 2019*

