

GRADUATION STUDENT'S INTERMEDIATE REPORT

1. **Student's name** **Gabriel Moyses Delfino**

2. **Period** **July 31st 2017 until January 7th 2018**

3. **Assigned project** **OTA equipment performance evaluation and calibration**

4. **Brief description of the project**

The FORTE OTA facility operated by Fraunhofer IIS and TU Ilmenau consists of a system of multiple (3 racks worth) devices to conduct OTA/Wave Field Synthesis testing. Proper calibration of the OTA system, including the wiring, requires a carefully planned and executed measurement campaign to investigate the properties of all components. The assigned task was to write software to automate these measurements, and conduct a measurement campaign measuring the components.

5. **Please inform content and development of student's activities as well as their relation to the research project**

Student learned usage of RF measurement equipment (Spectrum Analyzer, NWA etc.) including calibration procedures. Student learned remote-control of those instruments. Student had to learn new programming language(Python) including graphical user interface programming (QT). Using all this knowledge, student wrote software to conduct measurements and ran a comprehensive measurement of all the components of the OTA setup.


6. **Overall evaluation of the student's performance**

1	2	3	4	5	6	7	8	9	10
									x

(1. insufficient

10. excellent)

Univ.-Prof.Dr.-Ing. Giovanni Del Galdo
 Date:


 Signature