



GUC German Office

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Topic Proposal Form

International Bachelor Thesis 2021

Supervisor	Univ.-Prof.- Dr. -Ing. Giovanni Del Galdo, Dipl.-Ing. Robert Müller
Institute/Department	Fraunhofer IIS/ Electronic Measurements and Signal Processing department (EMS) TU Ilmenau/ Electronic Measurements and Signal Processing chair (EMS)
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Research field/Project	mmWave and THz Broadband Technologies
Description (URL for research information)	<p>The EMS group is active in the area of mmWave and THz Broadband Technologies with focus on the following research aspects:</p> <ul style="list-style-type: none"> - Development and Realization Broadband Hardware Components including system integration for mmWave and THz systems and design and realization for RF components such as antennas, antenna-arrays, filters and RF-PCBs. - System Development, Conception and Analysis based on Measurement Data. Relevant applications include Optimized Fusion of Different Communication Systems (VLC + mmWave + THz) - Standardization work with focus on IEEE Broadband System (802.11ay, 802.11 WNG SC, 802.11 Sense SC, 802.11az) <p>The student will be assigned to the exact Thesis topic based on the project work available at the starting date of the Bachelor Thesis. This way the Thesis has better chances to be project-related with better practical scope.</p>
Maximum number of GUC BSc students who could work on the project	1
Compulsory qualification of students	Good Analytical Skills Good programming skills: Matlab, Python

Date of stay (from – to)	4-6 months, flexible starting date
Remote supervision possible (Yes/No)	No
Additional contact partner Name and email	
Further comments	Additionally, be aware that you can apply for a student job or internship on a related topic.