

Short biography of Michael Stamm for NDTonAIR

Position within NDTonAIR: ESR 1

Host Institution: Brussels Airlines (BEL), Brussels, Belgium

PhD Enrolment: KU Leuven

My name is Michael Stamm and I am one of the early stage researchers within the European Training Network NDTonAIR. I was born in 1990 in Bonn (Germany) and moved to Hamburg (Germany) where I grew up and did my A-Levels. After a social year in a kindergarten, I moved back to Bonn to study physics. During my studies at the University of Bonn, I experienced a personal and technical progress. Next to this, I aspired towards the symbiosis of understanding and application in a professional way. While physics, in general, strive for a deep comprehension of complex issues, my programme at the University of Bonn holds the opportunity to design and construct experimental setups with the necessary measurement instruments. This combination is still my main interest when it comes to scientific challenges and new technical approaches.

My Bachelor studies provide a deep understanding of different aspects of physics including theoretical and experimental courses which content were applied in regular laboratory courses. As the physical department in Bonn has particle physics as one of the main focuses, my Bachelor thesis was in the field of particle detectors. During the six months of this thesis, I learned about advanced electronics, signal processing and data analysis.

This interesting scientific field convinced me to continue working as a student assistant in this domain during the first year of my Master studies.

During the second year of my Master studies, I performed my Master thesis at the Department of Geophysics at the University of Bonn. Even if the field of research within the applied physics changed significantly, I was able to use and strengthen my technical skills.

My first steps into non-destructive testing (NDT) were set by developing a non-destructive testing (NDT) method to investigate subsurface plant root systems with electrical impedance tomography (EIT). This field of science extremely interests me due to its technical complexity and applicability combined with the necessary understanding of signal and data processing.

After finishing my Master degree, I travelled through Europe for some month to explore the different ways of living and languages within my home continent. The experiences during this journey strengthened my wish to explore new cultures by living in it. Next to my professional interest, sports and music are my main hobbies, specifically rowing and playing the drums.