



## **Position within NDTonAIR: ESR 6**

My name is Abdoulaye Ba. I was born in 1991 in Yeumbeul (Senegal). I am one of the early stage researchers within the European Training Network NDTonAIR. I studied at the Polytechnic School of Dakar (Senegal) where I obtained a degree in Electrical Engineering.

During my internship to obtain the diploma of engineer in electrical engineering, I was working on the maintenance of the locomotives of the national office of the railways (ONCF) of Morocco with the company Alstom Transport S.A. In this internship, the analysis of Pareto was used to detect the most defective organs of the locomotives. This analysis reduced the failure rate and thus made locomotives more available.

I carried out a project of dimensioning the power supply of a cement plant at the Polytechnic School of Dakar. I am a founding member of the robotics club at the Polytechnic School of Dakar, where we realized many projects such as the mobile robot "Xint One".

After my engineering degree, I did the Master of Research in Electrical Engineering at the Polytechnic School of the University of Nantes where i did courses on nondestructive control and on induction heating. These latter pushed me to make a thesis in the field of nondestructive testing within the NDTonAIR consortium. I carried out my research internship in the laboratory IREENA where I currently do my thesis.

Apart from research, I practice football with the club Saint Marc of Saint Nazaire as a free player.