

Implementation of ERTMS 3 standard

At the École Centrale de Lille, I have implemented the ERTMS level 3 on a scale model with a team of 8 students.

→ WHAT IS ERTMS ?

The European Rail Traffic Management System (ERTMS) level 3 can deliver better capacity, reduce costs, improve flexibility and increase reliability of European railway network.

→ WHAT I DID ?

I have developed the **C code** of the trains (*European Vital Computer*) to deal with the base (*Radio Block Centre*).

To control the trains I have implemented a **Matlab model**, made with 2 friends, into the C code of the RBC.

We have also added an AI model to detect obstacles on the railway.

⇒ We have automated 3 trains on a scale model.



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