

HVAC Monitoring Internship

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Company: Toyota Motor Europe

Location: Zaventem

Category: other-general

Your team and your responsibilities

Team/division description

The Vehicle Performance Engineering division (VPE) is part of the R&D group at Toyota Motor Europe Technical Center in Zaventem, Belgium. Our division is in charge of: Identifying market requirements and trends, and turning them into development targets for vehicles, their subsystems, and down to components

Performance development of passenger vehicles for the European market

Researching state of the art and beyond state of the art technologies for implementation in future vehicles

Developing the state of the art methods to set these requirements, predict the performances and validate them

Your project

Your objectives will be to further develop, expand and validate a prediction method to estimate the air conditioning system state of health. This method is mostly based on machine learning and aim at remotely assessing the condition of the air conditioning refrigerant gaz.

Your role will be to define and gather necessary data in order to improve and expand an initial model as well as to proceed with the model improvement it-self.

You will be part of a diverse team with competencies in mechanical engineering, model base

development and data science. You will have access to state-of-the-art prediction tools, measurement equipment and to necessary test data.

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Your Profile

You are fluent in English (TME's business language), additional European language skill is an asset

You have a background in data analysis and science including machine learning techniques, experience in Python (Scikit-learn, statsmodels, keras,...) is an asset

You have a good knowledge of mechanical engineering and HVAC

You have strong analytical problem solving skills reinforced by good common sense

You are a quick and eager learner with a flexible mind and good eye for details

You are a team player with good communication skills inside a multicultural environment

You are self-organized and can manage your time

Place of employment

Belgium - Brussels (Zaventem): Toyota Motor Europe, Technical Centre

Starting date

06/05/2024

Duration

6 months

Confidentiality

Due to business requirement, not all performed projects can be reflected in the internship report. This issue needs to be discussed with candidate/school in advance.

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