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Vehicle Performance Modelling Engineer

Advancing Automated Driving with Expertise in Vehicle Dynamics and Model Validation

17. March, 2025

Wayve Technologies Ltd.

Riedwiesenstraße 13-17,
71229 Leonberg, Germany.

Application for the Position of Vehicle Performance Modelling Engineer

With Torc Robotics closing its European entity at the end of Q1 2025, I am seeking new challenges and opportunities in the automated driving field. I am excited about Wayve's expansion into Leonberg, Germany and would love the opportunity to contribute to your growing team. The *Vehicle Performance Modelling Engineer* position on your job portal caught my attention, as it presents an exciting opportunity to leverage my experience and skills to make meaningful contributions to your team..

As a Staff Software Engineer at Torc Europe GmbH, I am responsible for the development and maintenance of a real-time, physics-based vehicle models of a Freightliner Cascadia AP4 truck.

Recent Achievements and Key Project Deliveries

- ✓ **Led development of vehicle dynamics models** (300+ users) using test-driven development in C++.
- ✓ **Collaborated with OEMs and domain experts** to develop scalable model validation strategies.
- ✓ **Integrated real-time models into a complex robotics project** for V&V, ensuring ISO-26262 compliance.
- ✓ **Proficient in Git, DevOps and Containerization tools** for scalable and maintainable software solutions.
- ✓ **Led collaborative design and development** of a cutting-edge integration-test-platform for models in Python.
- ✓ **Played a vital role in providing simulation expertise** to tune control algorithms for safety-critical systems.

At Daimler Truck AG, I gained valuable experience in high-fidelity mechatronic simulations using Synopsys Silver and MATLAB/Simulink, including CAN bus simulations for control system development in advanced driving systems. This hands-on experience in automotive software integration, along with my proven ability to lead international teams and collaborate with automotive OEMs, positions me well to contribute to Wayve's mission of pioneering embodied AI for autonomy.

I am truly inspired by Wayve's vision and its commitment to fostering an inclusive, diverse, and collaborative work environment. I would be excited to bring my expertise in vehicle dynamics and model validation to help accelerate Wayve's journey toward shaping the future of autonomous driving.

Thank you for considering my application.

Best Regards,
Dr.-Ing. Chandramouli Gnanasambandham

