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To whom it may concern,

I am pleased to recommend Gabriel Virto Chirhuana, whom I supervised during his time at HELLA (FORVIA) within the Thermal and Climate Management (TCM) department as part of his internship and Bachelor's thesis work.

During his thesis, Gabriel worked on the modeling of convective heat transfer in automotive headlamps, addressing a highly relevant and technically demanding problem in the field of automotive lighting. His work focused on the development of a simulation-oriented, physics-based modeling approach to predict thermal behavior in headlamp systems, with particular emphasis on airflow-induced heat transfer and LED temperature prediction. In this context, he developed a 1D modeling framework and contributed to the implementation of thermo-fluid component models, demonstrating both solid theoretical understanding and practical engineering capability.

What distinguishes Gabriel is his ability to work independently on complex engineering problems. He quickly familiarized himself with the underlying physical mechanisms and modeling approach, and he was able to translate these into a structured and functional implementation. His work required not only technical knowledge in heat transfer and fluid mechanics, but also system-level thinking and the capability to abstract complex physical processes into efficient simulation models.

Throughout his time in our team, Gabriel consistently demonstrated a high degree of reliability and self-sufficiency. He managed his tasks in a structured manner, maintained a clear focus on deliverables, and proactively advanced his work without the need for constant supervision. At the same time, he was open to feedback and able to integrate suggestions effectively into his work.

From an R&D perspective, Gabriel has proven that he can contribute to technically demanding development tasks. His ability to combine physical understanding, modeling competence, and practical implementation makes him well suited for engineering-oriented student positions, particularly in areas involving simulation, system modeling, or product development.

In addition to his technical strengths, Gabriel is a pleasant and professional colleague, who integrates well into a team and communicates his results clearly and effectively. I can therefore strongly recommend Gabriel Virto Chirhuana for student positions in engineering or R&D environments.

Sincerely,

Andreas Lintz