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**Admissions Committee**

Chalmers University of Technology  
Göteborg, Sweden

Dear Members of the Admissions Committee,

I am writing to express my enthusiasm for the Master's program in High Performance Computing at Chalmers University of Technology. With a strong background in scientific computing, simulations, and a profound interest in space, astrophysics, and quantum computing, I am eager to contribute to and grow within your esteemed program.

My academic journey has been driven by a passion for understanding and leveraging computational power to solve complex scientific problems. During my undergraduate studies at the University of Luxembourg, I undertook several projects that honed my skills in this domain. Notably, I developed a simulation of a solar system, which deepened my understanding of celestial mechanics and computational modeling. Additionally, my work on secure hashing algorithms and software engineering projects has equipped me with a robust foundation in algorithm design and implementation.

I had the privilege of pursuing an Erasmus exchange at TU Wien, which broadened my academic horizons and exposed me to diverse research methodologies. Furthermore, my participation in ICPC competitions, including NWERC and BAPC, has sharpened my problem-solving abilities and fostered a collaborative spirit.

Beyond academics, I have actively engaged in competitive programming, which has further enhanced my analytical skills. My involvement with ESN Luxembourg, where I currently hold a board position, has enriched my leadership and project management skills. Volunteering in this capacity has not only allowed me to give back to the community but also to develop a global perspective and a network of like-minded individuals.

Chalmers University's commitment to cutting-edge research and innovation in high performance computing aligns perfectly with my career aspirations. I am particularly drawn to the university's interdisciplinary approach and the opportunity to work alongside leading experts in the field. I am confident that the rigorous curriculum and the vibrant academic environment at Chalmers will provide the ideal platform for me to advance my knowledge and contribute to groundbreaking research.

In conclusion, I am excited about the prospect of joining Chalmers University and am confident that my background, skills, and passion make me a strong candidate for the Master's program in High Performance Computing. I look forward to the opportunity to contribute to and learn from the Chalmers community.

Thank you for considering my application.

Sincerely,  
Henrik Klasen