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To whom it may concern,

With this letter of motivation, I want to apply to a spot in the "Master in Information and Computer Engineering"-Program.

A little bit more about me: My name is Henrik Klasen, and I am a Bachelor in Computer Science student at the University of Luxembourg.

During my semesters at the University of Luxembourg, I had a few courses about Computer Architecture, Networks and Communication, as well as Machine Learning. Furthermore, during my Erasmus at the University of Technology in Vienna, I pursued courses in Software Quality Assurance, Quantum Computing, Program and System Verification as well as Visual Computing. With a high interest in Networks and Communication, as well as a course in Internet of Things, I decided, that I want to focus more on this topic, as well as on Embedded Systems.

Next to University, I volunteer in the Erasmus Student Network section of Luxembourg. Here we organize events and trips for incoming exchange students as well as international students. My volunteering work started in early April 2023, when I joined the network. During this time, I took on the position of IT coordinator, finding, writing and maintaining suitable tools for simplifying the work. In my current position of the Secretary on national and section level, I manage the human resources and administrative work for the section.

This work really motivated me to build tools, that not only people in the office use, but also affect every day life. With pursuing the Master in Information and Computer Engineering, I hope to gain valuable insights into the current state of the art in System and Computer Design and Architectures. As computers are now omnipresent in our lives, in the form of mobile phones, laptops, desktops, cars, or even in smart homes, I see this field as my chance to get to do, what I truly want to do.

In my participation in International Collegiate Programming Contest (ICPC) competitions, I learned to solve complex problems in a time constrained setting. The two competitions I participated in were the BeNeLux-Algorithm Programming Contest and the North-Western European Regional Contest, where top teams from Oxford, Karlsruhe, Munich, Dublin, Stockholm and many other renowned universities participated in. This experience was truly unique and helped to learn how to solve complex problems in teams efficiently.

Already in my school time, I was interested in more than one subject. This is why I chose Physics, Mathematics and Geography as majors and Informatics as a mandatory minor, with Chemistry being an additional minor. During this time, I participated in competitions in Informatics, Physics and

Mathematics on the federal and national level. In the competitions for Mathematics and Physics I achieved a second place in the federal level. This shows my high interest in these topics, but also the capability to really dive deep into topics, if they are interesting for me.

Having now done an interdisciplinary project in Computer Science, where I wrote and modelled a three dimensional model of the solar system with gravitational forces affecting a user controllable satellite, I noticed, that sticking just to Computer Science would not be fulfilling for me. My preference is therefore towards a more interdisciplinary master program, which this master, combining Computer Science and Engineering, provides.

During my Erasmus at the University of Technology in Vienna, I was exposed to a quite international environment. This is nothing unusual for me, as our University in Luxembourg has about 50% international students. Coming from a small research university, and then being exposed to the big courses in Vienna was quite a shock, however, it did not negatively impact my time in Austria – in contrary. It showed me, that I did not want to go to a big teaching focused university, but rather preferring a comparably smaller, research focused university. In my summer holidays, I was travelling a bit in Austria, where I found Graz. I really liked the city, as well as the city surroundings. It was at this time, at which I noticed, that Graz has a University of Technology, and about two months ago I found the Master program for Information and Computer Engineering, which really interests me.

I hope that this letter shows my motivations, and I would hope for a chance to pursue my Master in Graz.

Best regards,

Henrik Klasen