Letter of Motivation

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Dear program Admission Committee,

My name is Lai Minh Ha, a software engineer with over three years of experience working on various telecommunications projects, including IP Multimedia Subsystem (IMS) and the 5G-core system. I'm writing to express my interest in joining your M.Eng. program in Electrical and Computer Engineering Communication Engineering, especially hte Communication Systems major. I have completed a B.Eng. in Electronics - Telecommunications from Ho Chi Minh City University of Technology (VNU-HCMUT) with a GPA of 7.29/10 (German equivalent: 2.63) in November 2021, and I am now eager to advance my career by pursuing a master's degree closely aligned with my professional expertise. Through the years, I have gained a solid engineering foundation and invaluable experience from working on projects with some of the telco giants, such as Ericsson(Sweden) and Viettel(Vietnam)—the most valuable Telecoms brand in Southeast Asia. I believe this combination of academic and professional experience makes me a strong candidate for your program.

Through my undergraduate courses, extracurricular activities, and thesis project, I have gained an extensive amount of understanding in the broad subject of electronics and telecommunications. In my third year of university, despite having a GPA of 7/10 at the time, I successfully secured a highly competitive six-month paid internship from Intel Products Vietnam. I was honored to be the only student from my program to receive this offer, which recognized my technical aptitude and potential as a promising engineer. I also aced all of my university English classes, and with just three months of focused preparation alongside my full-time job, I successfully attained a C1 Advanced level in IELTS. This could be a boost for my confidence when trying to learn German as my third language.

My professional career in telecommunications as a software engineer has equipped me with valuable expertise in mobile network systems. I started my career with DEK Technologies Vietnam a vendor of Ericsson, where I gained a strong foundation in troubleshooting, technical reasoning, and effectively communicating complex technical issues to multinational colleagues—essential attributes of a competent engineer. After a year and a half contributing to the Call Session Control Function in the IMS project, I joined one of Vietnam's most important telecommunication initiatives: building the first 5G-core standalone system for Viettel, the largest mobile operator in the country. The project launched on the 20th of November 2024 and recorded nearly 3 million users after 15 days of official live.

While exploring the curriculum of the Communications Systems major, I was particularly drawn to the course *Internet Security*, which I find highly relevant for students from countries like Vietnam that face significant challenges with internet fraud.The course's OSI model-based structure offers a logical framework for understanding security protocols, aligning with best practices like Transport Layer Security (TLS) that follow similar approach. Additionally, the *Machine Learning and AI* course stood out as particularly valuable. Modern mobile networks, including 5G, are increasingly integrated with cognitive network entities, such as the Network Data Analytics Function (NWDAF) and autonomous systems employing Event-Based Monitoring (EBM). I believe the course content can offer students both practical experience and an academic understanding of these cutting-edge technologies.

Beyond the program itself, studying in Europe, the home of the European Telecommunication Standards Institute (ETSI), a key member of the 3GPP group that is responsible for developing Technical Specifications (TS) from 3G to 5G and 6G system, offers a unique opportunity to deepen my understanding and address the technical questions I encountered while applying these standards in real-world projects.

Thank you for your consideration, and for the opportunity of applying to this program. I look forward to hearing from you soon.

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Sincerely,
Lai Minh Ha

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