Background Information

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1 Introduction

This document provides background information for possible tutor-teacher discussions. It covers my origins, reasons for choosing LUT and the Computational Engineering program, understanding of my study structure, career plans, and experiences during the fall semester.

2 Where I Am From and Why I Chose LUT

I am from Dhaka in Bangladesh. It's a small tropical country in South Asia with a large population. Our school system was quite competitive for this reason. I grew a passion for programming and robotics during my high school years. Even though the hobby was challenging enough for a high school student, it was quite rewarding too. During my school years, I participated in various robotics/programming competitions and won several national-level awards. By the time I finished high school, I was sure that I wanted to pursue a career in robotics and programming.

I started looking for universities that offered programs in these areas but specially I was looking for a program that was more versatile, practical, and focused on real-world applications. Unfortunately, there were not many options in Bangladesh. So, I started looking for universities abroad with a similar focus. Eventually, I found LUT and the Computational Engineering program which seemed like a good fit. The program's focus on computational methods, artificial intelligence, and software engineering made it a good choice for me. Moreover, I love the idea of studying in Finland, a country known for its high-quality education system, revolutionary technologies, and beautiful nature.

3 Study Structure and Specialization Plans

I am glad to say that I have a clear understanding of the structure of my studies. The program is well-organized, and I am aware of the courses and requirements. I am considering specializing in LLM and Robotics for my master's studies. Additionally, due to my passion for programming, I am fixated on taking Software Engineering as my minor.

4 Career Plans

I am preparing myself for a career in the field of robotics and artificial intelligence. I believe that these fields have a lot of potential for growth and innovation. Due to the recent advancements and the increasing demand for AI and automation, I think that I have a good chance to make a significant contribution to these fields.

I am focusing on developing my skills in programming, machine learning, and LLM to become an ML engineer or a robotics engineer. I am also looking forward to internships and projects that will help me gain experience in these fields.

5 Fall Semester Experience

I am happy to say that my studies at LUT are helping me a lot to develop skills and gain the knowledge required for the future roles that I have in mind. The courses that I have taken so far have been very helpful in understanding the foundations of the program. I am being able to enjoy programming as much as I did in high school.

During the fall semester, I have tried to apply my knowledge from the

mathematics courses and apply them to better understand the Generative Transformer model. Currently, I am working on rebuilding the GPT-2 model from scratch to understand its architecture. I feel really good about the opportunities that LUT is providing me and I am looking forward to the upcoming semesters to learn more and grow further.

6   Conclusion

As I am writing this document, I am realizing how much I love studying here at LUT. I hope to continue my studies with the same enthusiasm and passion. I am looking forward to the future and the opportunities that LUT has to offer. I am excited to see what the future holds.