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（我们将一篇近1500字的稿件修改到700多字。收到修改稿件后客户回复编辑：Amazing, your great efforts are highly appreciated! I love this version. It is very **CONCISE** and to the key point! ）

In talking about the problems existing in systems of communications, the author Robert G. Gallager once said that “No scheme is optimum for all communication situations.” This statement implies that there is no one perfect system. I on the other hand, take it to mean, on a broader perspective, that since no perfect system exists, we are left to search for that which might somehow make it optimal by utilizing all available resources and seeking out the potential of each possibility. My life is somehow guided by this principle.

Upon changing my major to Communications during my freshman year, I immediately decided to build a broad and solid foundation in the fields of Electronics and Communications so that I could fully utilize my potentials and be able to effect my future growth and development.

As an undergraduate student, I have spent three years systematically learning the theoretical foundations of my chosen field and exercising my programming skills through experiments. To challenge myself even further, I have also decided to practice my hardware design skills, such that during the summer break of my junior year, I participated in the Electrical Design Contest together with other teammates. Under Professor Chen’s guidance, not only did I learn many different chips’ datasheets, but I was also able to deepen my understanding of the concept of a system in practice. During the contest,

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participants were tasked to design a Digital-Display Alternating Millivoltmeter that can measure 10mV to 200Volt RMS signal with frequency ranging from 10Hz to 1MHz. In addition, our product also included many expanded functions, such as an auto-range conversion function using relay and DDS frequency synthesizer.

At about the same time that the Electrical Design Contest was wrapping up, I also joined the Wireless Mobile Communication and Transmission Laboratory due to my strong interest in wireless communication. Knowing how important it is to be able to grasp the foundational principles of a particular area of study, I systematically read some classical literature on Information Theory and Channel Coding, such as *"A Mathematical Theory of Communication"* by C. E. Shannon and *"Low Density Parity-Check Codes"* by Robert G. Gallager. Shannon's masterpiece has shown me the significant role one mathematical theory would play in the development of a particular field, especially one breakthrough basic theory could bring along the prosperity of an applied field. This is somewhat similar to an object's parabolic motion: when the basic theory accumulates enough potential energy until it reaches the peak, the applied technology would transform it into kinetic energy which would then develop the whole field. Standing on the shoulders of Nyquist and Hartley, Shannon had turned Communication from an empirical subject into a theoretical one that could be derived through and proven by Mathematics. Such innovating spirit is truly inspiring. Ultimately, what I have learned from their works is the great role Mathematics plays in the analysis and modeling of certain problems.

With the solid foundation that I gained, I was selected to conduct research at the University of Hong Kong. After several months of prerequisite research, I decided to be involved in the study on anti-collision algorithms of RFID. By investigating traditional algorithms such as BT, MBT, and IECR, I made several important modifications to improve the system performance, especially in estimating group size and resolving collisions. The Hong Kong government approved this proposal and granted research funds. Although the proposal is not as simple and reliable as EPC standards, the pursuit towards faster recognition did move the technology forward a small step. More recently, research on policeman patrol patterns for the Hong Kong police department allowed me to combine my knowledge base with responsibility towards society. In this sense, my academic and research experience showed not just a requirement fulfillment, but my dedication toward technologic development and the scientific community as a whole.

I have clearly discovered the destination of my path towards excellence: the field of Electronics and Communications. I look forward to working under the tutelage of the best in the field including professors ***** at ****. The great variety of innovative research programs, rich interdisciplinary environment, and the academic energy and passion of the campus motivates me and I

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Comment [U3]: The portions that we have omitted were the portions that discussed in detail the works of Shannon and Gallager. However, we retained what we could to help emphasize how you were able to relate to their works and how you would apply them in your life.

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Comment [U4]: • All throughout the essay, we also made it a point to insert a statement ... [10]

Comment [U5]: Very impressive description of the academic background ! Good ... [11]

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aspire to study and conduct my research at such a dynamic setting. After earning my Ph.D., I plan to do research work either in a domestic or an international institution. I believe that such a position will provide the greatest potential for me to make a substantial contribution to the scientific community.

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Comment [U6]: Conclusion- You have a well-organized conclusion and we corrected the grammar and substituted some of the words and sentences to make it stronger and more compelling.