Please highlight any additional information which has not been included elsewhere in the application, e.g.:

• Why do you wish to pursue a higher degree by research?

我非常热爱科研，我也热爱我专注的这个芯片领域，每次的有关学习都会让我热血沸腾，例如焊接电路板，钻研代码，debug代码等等，曾经有过多次科研的经历，我享受做科研的过程，我希望能够更加深入的研究热爱的领域，希望能在该领域做出自己的贡献

• Why have you proposed this research topic?

我本科学习的cs，参加的课程范围很广，从软件的系统设计到硬件的设计，在学习第一个硬件课程数字逻辑电路时，是我的班主任的课，我一发不可收拾的喜欢上了硬件设计，在那个课程中，我尽力的将每个知识点深入到原理，渴望知道所有的原理和背后理论

• Why do you feel there is a specific demand for the skill set that you wish to build?

一直以来硬件发展在摩尔定律的限制下，需要更长远的发展，需要这方面的人才，如今摩尔定律面临终结的可能性，更需要该方面的人才去做一些贡献。其次我的研究方向与AI紧密结合，在当前的环境需求下，AI急切的需要硬件加速，带来更高的效益。总的来说我认为我的研究具有很高的价值。然后博士期间我可以在喜欢的领域更加专注的进行研究，相比于前面的学习经历会更加有希望能够完成目标，做出一些贡献，四年左右的锻炼是不可缺少的。

• Why are you particularly suited to this research field?

我认为我对于研究有着极大的兴趣，曾经也经历了很多次项目研究，每次都在不断地突破自我，在当下得到较大的认可。每次做相关的实验，看到电路图和一些板子我都会非常兴奋，我相信这是因为我在这个领域非常的感兴趣，相关的问题我总是希望知道背后的原理。我为人乐观，这让我有很乐观的心态，积极向上的对待我的研究，我性格踏实向上，我坚信一步一个脚印，乐于看到自己的努力得到一些回报，也愿意在实验室坐上几天去钻研待解决的问题。我的沟通和组织能力都很强，曾经担任多次项目组组长以及学生会干部等等，所以我认为我可以很好的自我管理，带领他人，融入他人，我认为这些特质都非常的重要。再有我非常渴望能够在该领域变成专家，做出贡献，我相信这将让我在该领域的道路上走得更加坚定。

• Which of your attributes demonstrate your capability to be a good researcher, e.g. motivation, commitment, thirst for knowledge?

From an early age, I have been passionate about research, particularly in the field of chip technology. The process of soldering circuit boards, diving deep into coding, and debugging has always fueled my enthusiasm. My previous research experiences have been immensely fulfilling, and I am eager to delve even deeper into this field. Pursuing a higher degree by research will allow me to contribute meaningfully to this area I hold dear.

My undergraduate studies introduced me to hardware design, starting with my first course in digital logic circuits. I quickly developed an intense passion for this field, which only grew stronger as I delved into subjects like computer organization and EDA. My enthusiasm for hardware led me to make the bold decision to change my focus area. During my master's studies, I transitioned to specialize in electronic information engineering, a hardware-intensive discipline. Despite the challenges, I embraced this path wholeheartedly because it aligns with my dreams and aspirations.

The need for advanced skills in this field is pressing. As hardware development faces the limitations of Moore's Law, there is a greater need for experts who can push the boundaries. My research intersects with AI, an area in desperate need of hardware acceleration for higher efficiency. By dedicating my doctoral studies to this, I hope to develop innovative solutions and make significant contributions. I believe the focused four-year journey of a Ph.D. will allow me to build the skills and knowledge necessary to achieve these goals.

I am particularly suited to this research field due to my strong interest and background. I have led multiple research projects, each time pushing my limits and achieving recognition for my efforts. The sight of circuit diagrams and hardware components excites me, driving my desire to understand the underlying principles. I am optimistic, pragmatic, and always eager to learn. My determination has seen me spend days in the lab, solving complex problems. Moreover, my communication and organizational skills have been honed through leadership roles in various projects and student associations, equipping me to collaborate effectively and lead research initiatives.

What sets me apart as a researcher is my unwavering motivation, commitment, and thirst for knowledge. I am driven by the vision of becoming an expert in this field and making a meaningful impact. I am ready to embrace the challenges of research, confident that my passion and resilience will guide me through.

In summary, I seek to pursue a higher degree by research to satisfy my deep curiosity and contribute to the advancement of chip technology and AI. With my background, dedication, and eagerness to learn, I am confident in my potential to excel and make a lasting contribution to this field.