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Apple  
One Apple Park Way  
Cupertino, CA 95014  
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Dear Internship Employer,

I am looking to apply to your Hardware Engineering Internship position. With my experience in my previous internship at Accusilicon, a chip design company, I am excited to use my skills to build and program code for future technologies at Apple.

Because of my experience with multiple programming languages, I am competent enough to assist in coding for Apple's various spacecraft technologies. My most important experience is at Accusilicon, where I wrote a program in Linux shell script that converts a chip design layout in TSMC fab into SMIC fab. The converted chip was successfully fabricated by the company's test engineers in September 2024. I also wrote a polynomial curve-fitting python program that created a SPICE model for the company's newly designed voltage-controlled capacitor.

During the development of the capacitor model, I discovered a quantization error that could result from a very high polynomial order, so I changed my code to generate the appropriate order for the model to prevent overflow during circuit simulation and still maintain high accuracy. My competence in Python will help me contribute to future projects at Apple as an engineer for the latest iPhones, iPads, and computers. I hope to contribute to the success of Apple in engineering these technologies.

Thank you for considering my application for Apple. Feel free to contact me at [zhoulucas000@gmail.com](mailto:zhoulucas000@gmail.com) or on 925-282-9925. I look forward to hearing back from you!

Sincerely,  
Lucas Zhou