Adem Mcharek

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Cadence Design Systems
San Jose, California

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Dear Hiring Manager,

I am writing to express my keen interest in the internship opportunity at Cadence Design Systems, as advertised. Currently pursuing a B.S. in an engineering discipline, with a strong grounding in programming skills, particularly in C++, and a deep familiarity with object-oriented programming methods, I am excited about the prospect of merging my technical proficiency with the intricate dynamics of thermal optimization, especially using machine learning algorithms.

Through my academic journey and various projects, such as optimizing algorithms and modeling for specific infrastructures, I have honed my ability to translate complex mathematical concepts into practical solutions. The internship at Cadence Design Systems focusing on developing P C B/package/chip thermal analysis software aligns perfectly with my skills and aspirations.

I bring prior knowledge and experience in distributed/multi-threaded programming, numerical analysis techniques, and a deep understanding of electric cooling systems, including CFD analysis. Moreover, my exposure to finite-element-based thermal simulation and meshing techniques further enhances my suitability for the role.

I am enthusiastic about the opportunity to work on extremely complex problems, exercising independent judgment, and providing work leadership as needed. My experience in automatic design optimization for thermal targets adds value to my potential contribution to Cadence Design Systems. I am eager to contribute to the innovative projects at Cadence and look forward to the possibility of discussing how I could be a valuable asset to your team.

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