

# [Your Full Name]

[Phone Number] | [Email Address] | [LinkedIn Profile]  
[City, State, Zip Code]

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[Date]

[Hiring Manager Name]  
[Title]  
[Company Name]  
[Company Address]

Dear [Hiring Manager Name],

Regarding the **Thermal Systems Mechanical Engineer** position at [Company Name], I am writing to express my interest in joining your engineering team. With a background in thermodynamics, heat transfer, and fluid mechanics, I am prepared to contribute to the optimization and thermal management of your [Specific Technology/Products].

During my tenure at [Previous Company/University], I specialized in the design and analysis of complex thermal systems. I have extensive experience utilizing [CFD Software, e.g., Ansys Fluent/Star-CCM+] and [CAD Software, e.g., SolidWorks/NX] to simulate heat dissipation and fluid flow. My work on [Specific Project, e.g., liquid-cooled battery enclosures or high-density electronics cooling] resulted in a [Percentage]% improvement in thermal efficiency.

I am particularly drawn to [Company Name]'s recent innovations in [Specific Company Achievement]. My technical proficiency in selecting phase-change materials, designing heat exchangers, and conducting thermal vacuum testing aligns with the requirements of your current hardware development cycle.

I welcome the opportunity to discuss how my technical expertise in thermal modeling and hardware validation can support the engineering goals at [Company Name]. Thank you for your time and consideration.

Sincerely,

[Your Full Name]