

**[Your Full Name]**

[Phone Number] | [Email Address]

[LinkedIn Profile URL] | [Portfolio/GitHub URL]

[City, State, Zip Code]

[Date]

[Hiring Manager Name]

[Title]

[Company Name]

[Company Address]

Re: Application for [Job Title / Reference Number]

Dear [Hiring Manager Name/Team],

I am writing to express my interest in the [Job Title] position at [Company Name]. With a strong background in thermodynamics, fluid mechanics, and heat transfer, I have spent [Number] years designing and optimizing thermal management solutions for [mention industry, e.g., aerospace, EV, or consumer electronics] applications.

In my previous role at [Current/Previous Company], I specialized in the development of [specific system, e.g., liquid cooling loops, phase-change cooling, or heat exchangers]. My technical expertise includes performing steady-state and transient thermal analysis using [Software, e.g., Ansys Icepak, Star-CCM+, or FloTHERM]. I have a proven track record of reducing [specific metric, e.g., component junction temperatures or system energy consumption] by [Percentage]% through innovative [specific methodology, e.g., micro-channel geometry optimization or material selection].

I am particularly drawn to [Company Name] because of your recent work on [specific project or technology]. My experience in [specific skill, e.g., CFD modeling, thermal testing validation, or manufacturing process integration] aligns perfectly with your requirements for the [Specific Team Name] team. I am confident that my ability to bridge the gap between theoretical thermal modeling and physical hardware prototyping will contribute to the continued success of your thermal systems.

Thank you for your time and consideration. I look forward to the possibility of discussing how my technical skills and problem-solving approach can benefit [Company Name].

Sincerely,

[Your Name]