

# Sophia Thompson

January 16, 2026

Acme Corporation

RE: Embedded Systems Engineer

Dear Hiring Manager,

I am excited to apply for the Embedded Systems Engineer position at Acme Corporation, as advertised on LinkedIn. With a strong background in embedded systems development and a passion for innovative technology, I am eager to contribute my skills to your team and help drive the next generation of products at Acme.

In my previous role at Tech Innovations Inc., I successfully led a project to design and implement a low-power microcontroller for a wearable device, which resulted in a 30% increase in battery life while maintaining performance standards. This achievement not only enhanced user satisfaction but also contributed to a 15% reduction in manufacturing costs. Additionally, I developed a real-time operating system (RTOS) for an automotive application that improved response times by 40% compared to previous iterations. My experience with both ARM and FPGA architectures allows me to create versatile and efficient embedded solutions that meet stringent timelines and budget constraints.

I am particularly impressed with Acme Corporation's commitment to pushing the boundaries of technology and its innovative approach to product development. I am eager to bring my expertise in embedded systems, along with my proactive problem-solving skills, to your team. I would love the opportunity to discuss how my background, skills, and enthusiasms align with the goals of Acme Corporation.

Thank you for considering my application. I look forward to the possibility of discussing this exciting opportunity with you further.

Sincerely,

Sophia Thompson