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Writing for Engineers

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In my letter of introduction I wrote about the company ConEdison. In 10 years I believe AI will be part of my everyday work life. Firstly I think that AI will change how teams communicate and manage projects. For example, I could use AI to summarize reports, track construction progress, or predict delays based on past projects. Also I imagine data softwares implementing their own AI, becoming a more advanced version of those tools.

As an electrical engineer, I imagine AI helping me monitor the power grid in real time. Instead of only reacting when something breaks, AI systems could analyze sensor data from transformers, cables, and substations and warn us before a failure happens. This would help prevent outages and make the city's energy supply more reliable.

I also think AI will help with planning and design. When working on upgrades or new infrastructure, I could use AI tools to simulate different scenarios, such as increased demand from electric vehicles or extreme weather events. The AI could quickly compare options and suggest the safest and most efficient design, while I would still make the final engineering decision. This would save time and allow engineers to focus more on solving complex problems rather than doing repetitive calculations.

Even with these changes, I believe AI will not replace engineers. Instead, it will act like a smart assistant that improves safety, efficiency, and planning. My role would be to understand the technology, question its recommendations, and make responsible decisions that keep people

safe and the power running. In this way, AI would not only change how I work at Con Edison, but also help me become a more effective engineer