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what is an engineer an engineer applies scientific and mathematical principles to design develop and maintain systems structures and processes across various industries engineers can specialize in diverse fields such as civil engineering electrical engineering mechanical engineering aerospace engineering and many others

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engineering is the application of science and mathematics to solve problems engineers figure out how things work and find practical uses for scientific discoveries

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engineers learn a more general theory of engineering that is easily adaptable to changing practices where as an engineering technologist learns specific practices and devices that can change over time

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engineering is the art of the possible it s applying skill and creative thinking to solving the world s biggest challenges it s seeing what isn t so and finding ways to make it so from climate change to connectivity clean water to cybersecurity engineering touches every aspect of our lives

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