Personal Statement

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Growing up in Indonesia, the contrast between our resource-rich nation and neighboring countries like Singapore and Malaysia, who were once considered underdogs, are very striking. And I ask myself, despite our abundance, why can't we prevail in this age of technology? And realized that the issue is not scarcity, but in our collective mind-set. Many Indonesians grow up believing success follows a single, safe path. Such as becoming doctors, businessman, or civil servants. Which leads us to be constrained by our own expectations and fears of failure, limiting our innovation. I was raised in the same circumstances, but I choose to make my own path, a leap of faith in my potential. This realization inspired me to pursue a more advance understanding of Computer and Information Engineering, as I aim to break free of those constraints and contribute to Indonesia with innovation and technological advancements.

My academic background in Computer Engineering at Institut Teknologi Sepuluh Nopember provided me with a strong foundation in hardware and software development. Focusing on IoT and embedded systems, I gained extensive hands on experience in designing and implementing intelligent solutions for real-world challenges. This was best reflected through my final project, where I designed, manufactured, and implemented a wireless cloud-based token refilling robot for prepaid electrical meters, built using 3D printed components and a custom PCB. These meters are installed in nearly every household in Indonesia, yet they can only be refilled manually and by hand, making it time consuming and inefficient. Through this project I developed skills in 3D modelling and 3D printing, PCB design, full-stack development, and cloud deployment, while also learning to integrate multiple disciplines into a cohesive system. More importantly, it ignited my passion for applying engineering to create practical solutions for real use cases.