1. Why do you want to study your chosen major at Georgia Tech, and what opportunities at Georgia Tech will prepare you in that field after graduation? (max. 300 words) Word Count: 291

The workshop held by Pelita Harapan University introduced me to electrical engineering, which began as the dean presented a chart depicting daily energy consumption in Indonesia. Smartphone-, television-, and electronic device-uses dominated the chart. I could not help but cringe big-time at the humongous amounts of energy wasted, be it through systematic inefficiencies or simply heedless, consumptive behaviors. This self-generated sense of urgency is thus what drove my desire to promote automation as means of capacitating energy consumption in machineries and appliances alike.

When I expressed my interest to a friend attending Georgia Tech, he showed me a video of his capstone project – detailing a low energy-consuming electronic chess board lighting up the possible moves a chess piece could take on. I was immediately hooked and decided to research more about the hands-on opportunities offered by the Georgia Tech School of Electrical and Computer Engineering.

With courses such as ECE 4320 Power System Analysis & Control and ECE 3072 Electrical Energy Systems, I would be able to deep dive and up my know-how on automation in systems. Integrating my classroom knowledge, I aim to engage with The Hive by using the IDC Building’s equipment on innovative engineering projects. I also hope to collaborate with Professor Deepakraj Divan on cost and energy-saving applications and technology while applying my programming and circuitry analytical skills. Furthermore, my target to secure working positions at start-up and established companies such as Georgia Pacific and National Instruments would also hopefully be leveraged by ECE’s extensive alumni network and industry partners.

Ultimately, it is the winning combination of academic excellence, strong research as well as career relevance that I plan to utilize and harness as a Ramblin’ Wreck to achieve my career goal of saving the world’s future resources, both through systematic efficiencies and a sustainable mindset.

*Hi Michael,*

*I really appreciate that you took the time to be mindful about all the little, technical wordings that add up to the overall impression of this piece. As a result, your essay was able to body a focused theme that I hope the admissions committee reading this later on would appreciate as well.*

*Good job!*

*- Matthew*