**How will opportunities at Purdue support your interests, both in and out of the classroom? (100 words)**

Indonesia is reliant on water desalination as its clean-water source. However, during my internship, I learned that it was powered by the grid instead of sustainable sources. Purdue has renewable energy initiatives that develop a wave-energy convertor for reverse osmosis and I intend to understand this technology to enable Indonesia’s first large-scale wave-powered desalination process. Moreover, I consider myself a budding animal activist and the Cause For Paws club would enable my next-generation solar-powered automatic animal-feeder that better suits rescued animals in shelters. Understanding animal needs would enable me to make more suitable products to improve their quality of life.

**Briefly discuss your reasons for pursuing the major you have selected. (100 words)**

My realization of the imminent threat of global warming started from a school charity event dedicated to the Pakistan floods. This ignited my interest in sustainable energy as it could be the solution to mitigate rising sea levels. As I explored this topic further for my Engineering project, I was exposed to Carnot cycle-thermodynamics and energy conversion efficiency of a hydroelectric dam. The possibility of being able to achieve energy conversion beyond that of a Carnot cycle simply excites me and becoming a Mechanical Engineering is my best option in order to be able to design efficient sustainable energy devices.

Hi Abian,

Your first essay is great! You have included an academic interest and a non-academic interest and mentioned yourself as well as the university too. For the second essay, you should also mention possible non-major-specific classes you would take and try to tie this into the essay by mentioning how this would help in achieving your ‘life goal’ Hope this helps and ask your mentor if you have any questions!

* Anushka