**UW-Madison Essay Ravi**

*Tell us why you decided to apply to the University of Wisconsin-Madison. In addition, please include why you are interested in studying the major(s) you have selected. If you selected undecided, please describe your areas of possible academic interest. (650 words)*

As I dawned upon the red pedestrian light, my vision caught a never-ending swarm of swerving 2- past 4-wheelers as viscous fumes brushed over me before collected high up by the infamously grey Jakartan sky. After years of obliviousness, I was awoken from my frozen chamber.

*“Uhk!”* my lungs could not handle the extreme concentration of pollutants emitted by an ubiquitously unregulated public bus we used to call *metro mini*.

That very day, my tingled physique almost immediately mourned for blue-collars who have no choice but to breathe in substandard working and living conditions on a daily. For when I was merely a passerby, my well-equipped immune system casted a shadow on what is happening right around me. It is this sphere-breaking that my subconscious urgently ticked to generate energy: in a mental sense to help, but also quite literally.

Mechanical Engineering.

The study of objects and systems in motionwhich has given me a purpose to do what I love. A sweet intersection between mathematics, engineering physics and chemistry as means to design and manufacture cutting-edge technology which not only tap upon the domain of economics but also politics. In other words, cost-efficient yet also feasibly implementable in the long run.

At UW Madison, walking that extra mile means being at the forefront of innovation and research; I am excited to be called a fellow Badger whose brand is in pursuing knowledge through interdisciplinarity. It is only true this day and age that students not only be trained on the technical know-hows in lecture rooms and laboratories; soft skills such as negotiation and presentation are just as important to succeed in both academia and professional worlds. The Grainger Institute for Engineering, for instance, is a dream-to-life landmark for me cementing this concept.

Clean energy and sustainability are hot buzzwords I look forward to discovering more of as a future engineer. Through the University’s Engine Research Center, I hope to be able to start by learning about the fundamentals of engine combustion together with its internal processes and external interactions with the environment. Research in this area is important for me as I aim to understand the impact of conventional engines as I yearn for Jakarta’s incumbent cars and motorbikes.

Outside of academics, I am also stoked about the myriad of student-run organizations that Engineering Badgers get the privilege to be part of such as Wisconsin Racing. To be involved in such a team is every mechanical engineer’s dream. I will get to design, build, and test-run race cars all at once which takes the fun in mechanical engineering to a whole new level. I also crave the competitive nature of the team’s participation in formula races. Interested in being a part of the Wisconsin Racing’s Electric Team, I would be in my happy zone as I collaborate with like-minded peers on designing and improving the efficacy of the race car’s battery as a fueling component.

Yet it is not only about fostering my avidity for sustainable vehicular fuel as I challenge my technical proficiency outside of the classroom. When I think about studying mechanical engineering, I also think about the impact that I could bring to communities across the globe. It is with the College of Engineering’s strong student network and alumni community that I wish to leverage in my liaison with governmental bodies and/or local non-profits to build water treatment facilities in regions across the Indonesian archipelago that lack quality infrastructure. Thankfully, service organizations like UW-Madison’s Engineering Without Borders would be able to help me do just that.

As my mind warped back to my lovely capital – alerted by the ringing pedestrian light which just turned green – I walked past what was the last streak of sunset, hoping that I can come out of UW Madison as a purposeful engineer on sustaining the beauty of our planet Earth: one to be enjoyed and celebrated by generations to come.

*Hi Ravi!*

*I think overall this essay is a decent consolidation of your previous pieces.*

*What I observed here, however, is that your piecing sort of made your personal branding go all over the place; you want to make sure that you’ve glued every part – from academics to research to extracurriculars to career goal – in a way that screams “I am your missing piece in your Badger Class of 2025!”*

*- Matthew*