**Why do you want to study your chosen major specifically at Georgia Tech?**

*A malfunctioning ammonia sensor and automatic feces cleaner*: the farm figured it out too little too late. Not until after several batches of chickens contracted disease making them *unfit* for the food industry and leaving my parents’ poultry farm in a huge deficit right before my internship there.

I’ve been visiting the farm regularly either to pick-up and drop-off my parents or to observe its operations, and everything is always in tip-top shape. The incident put a dent in the farm’s finances, but not enough to bring the farm down. I was stunned how a single pair of equipment malfunction could cause a large-scale setback. I scoured the web to gain insights on supply chain, logistics, and operations. Reading journals about poultry farm operations, I found Industrial Engineers who performs failure analysis and optimizes manufacturing processes using Math; I was obsessed.

H. Milton Stewart School of Industrial and Systems Engineering’s curriculum would further my dream to scale-up my parents’ farm through effective problem solving of integrated systems. The Digital System Design course would provide me with electronics equipment knowledge to prevent automated system failures, while Economic Analysis and Policy Problems would equip me with economic decision making skills to minimize loss resulted from operation failures.

The livestock industry revolves around the treatment of living organisms, the Biologically-Inspired Design Course would also serve as a source of inspiration allowing me to translate biological knowledge and Engineering principles to innovative products and processes. I also hope to collaborate with Professor Martin Savelsbergh in his research on transportation and logistics, supply chain management, and creating innovative techniques to solve large scale optimization problems.

I believe that I would be able to thrive under Tech’s innovative and diverse nature. At the world famous Flowers Inventions Studio, I would be free to make my designs a reality, meet fellow future engineers, and learn from various Prototyping Instructors would certainly broaden my horizon.

At Tech, I would feel at Home with the Yellow Jacket’s collaborative community to build, think, and hack our way to a bright future unbound by limitations.