**Briefly discuss your reasons for pursuing the major you have selected**

*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 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. Purdue’s Industrial engineering curriculum would further my dream to scale-up my parents’ farm through effective problem solving of integrated systems.