**Project Proposal**

**EARL: Egg Alert and Real-time Logistics**

Creation of a system that mechanizes the process of determining when and where a chicken egg flow problem (egg jam) occurs on a system of conveyors through the chicken egg packaging process. Mechanical units will be installed along separate conveyors to track the flow of eggs down that specific conveyor, these units will report to a software program designed to determine if the flow is normal or abnormal. In the case of abnormal flow, the system should alert the user in real-time as to which specific line the problem has occurred on. In actual use, thousands of feet of conveyor lines would need to searched manually in the instance of a jam, this system would minimize the searching, thus minimizing the labor needed to fix the problem. Also the system eliminates unnecessary loss in performance, by alerting a user even when the packaging system is not in use.