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| **CS 360: Software Engineering** | |
| Project Evaluation | **Matthew Rasler** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | This is an overview of our project evaluation and my personal details. Details below. | | | | | | **Topic** | Egg Flow Communicator | | **Project Members** | Mark Parker, Matthew Rasler, Andrew Habegger | | **Project Manager** | Matthew Rasler | | **Aspects** | Motion Analysis, Object Tracking, Embedded Software, Hardware Drivers | | **Subjects** | Computer Science, Mechanical Engineering, Electrical Engineering | | **Development Time** | 12 months | | **Objective** | Fully functional, minimal error, mechanical system | | **Sponsor** | Tim Habegger, Proprietor of Habegger Poultry | | **Personal Details** | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | *Interests* | |  |  | | --- | --- | | • | Uses cutting edge technology | | • | Potentially profitable | | • | Spans multiple Computer Science disciplines to accomplish a singular task | | • | Has tangible and measurable outcomes | | |  | *Qualifications* | |  |  | | --- | --- | | • | Experienced Software Developer, Confident in Java, C/C++, and Object Oriented Paradigm, HTML, CSS, PHP | | • | Mathematics and Physics background, with experience applying Mathematical concepts to real-world projects | | |  | *Expectations* | |  |  | | --- | --- | | • | Success collaborating multiple members and developmental streams in the development of a software based project | | • | Hone software development skills, including C based languages, and learn new languages or programs that help accelerate the development of this concept. | |   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.   * Pictures -- <http://ge.tt/87WlRb7?c> * Software -- <http://ge.tt/9oRwRb7?c> | | | | **Project Details** | | | **Resources** | | |  |  |  |  |  | | |