Grinding Efficiency

**Overview**
Anvil International currently has no direct approach of monitoring their operator efficiency in their grinding department. In addition, employees have limited access to standard cycle times to give them a true target. It is believed that there is potential for a 20% gain in efficiency if operators and supervisors were provided this information.

**Objectives**
Develop a prototype for a work cell efficiency auditing system that will provide operators and supervisors with live feedback of operator’s efficiency compared to a set standard. The system should be economical and easy to operate solution that will solve the inability to provide operator feedback.

**Approach**
- Ranked the customer’s needs to determine the scope of the teams abilities
- Create a conceptual design of the system
- Select a method of detecting parts
- Develop a way to display the operator’s performance
- Finalize the CAD drawings for the system
- Fabricate system and connect hardware
- Perform testing using similar parts from the customer

**Outcomes**
- The customer spends less than $3,000
- Customer has a working system to be utilized in their factory
- The system meets all of the customers’ requirements