

## Who is Euclid Beverage

Our sponsor, Euclid Beverage LTD., is one of the biggest beer distributors in the state of Illinois, and their reliance on the newest technologies helped them achieve this status. The Priya® Warehouse Management System that supports Voice Commands was implemented to Euclid Beverages in 2007, and it boosted inventory and other operations in the warehouse.

Euclid Beverage LTD employees operate many machinery, and they carry several tools. Some of these include:

- >> Voice Recognition headsets.
- >> RF scanning and communication guns.
- >> Several fork lift types.



All tools and machines are connected to the computerized Priya.

Beer distributing industry is very competitive, and Euclid Beverage LTD. is a leader in many ways. Millions of beer bottles, cans, and barrels are distributed annually on Euclid's trucks. Nonetheless, they have decided to sponsor our team as consultants to improve their tasks and operations even more.

## Team Members

### Faculty Advisor

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### Team Member

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## Making Every Drop Count!

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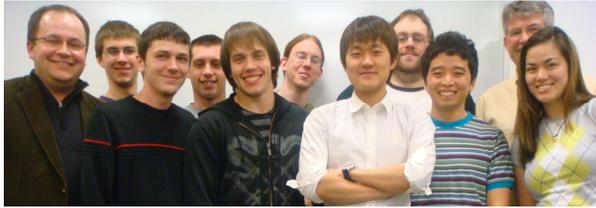
## Operation Smooth Brew

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## Making Every Drop Count!

## Who We Are : Operation Smooth Brew



Operation Smooth Brew (IPRO 345) is a class structured into a consulting firm, focused on improving the operations and efficiency of our client: Euclid Beverages. In order to properly consult Euclid, we derived multiple goals to explicitly state our purpose, broken down into 6 phases.

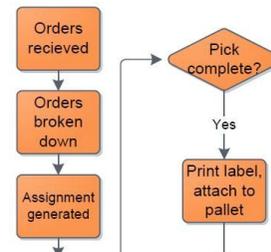
- >> Information Gathering: Visit Euclid and talk to both workers and management.
- >> Process Mapping: Use information gathered to construct flowcharts
- >> Identify Inefficiencies: Analyze flowcharts for inefficiencies
- >> Create solutions: Brainstorm effective solutions to the inefficiencies discovered.
- >> Filter solutions: Discuss with client the feasibility of suggested solutions and tests the methods chosen
- >> Present to client management: Professionalize our information and solutions and present them to Euclid for eventual implementation.

## Flow Charts: The Actual Steps

We found the need to observe the processes and deliver flow charts which truly followed the current work flow. A prior consulting firm had initially drafted a set of work-flow charts, so, we were able to construct documents truly resembling the various processes using that.

In order to collect these data, we took the following steps

- >> Overview initial consulting company flowcharts
- >> Visit Euclid and observe workers in action
- >> Talk to designated workers about process specifics
- >> Derive a new version of the flowchart
- >> Repeat steps 2-4 as necessary



Finally, all of the flowcharts were compiled into a final deliverable given to the company. With their current work-flow mapped out, it is now possible for Euclid to pinpoint problem areas, and see which steps might be unneeded or require extra attention. Thus, the flowcharts provide them with a catalyst to facilitate change.

## Performance Tracking

Euclid Beverage keeps track of several performance metrics. The consulting team suggested that building a performance tracking database would benefit the sponsor.

A database prototype has been presented to Euclid Beverage management. The prototype was based on "end of day" reports, and it displayed areas of higher and lower cost errors.

Retaining an efficiency tracking database would benefit Euclid Beverage LTD in particular in those areas:

Capturing of the trends in efficiency reports would become an easy task.

Several reports would get consolidated in the database.

Error cost diagram and visualization building is very simple based on computerized databases.



The consulting team is proud to have Euclid management's approval of this suggestion, and their declaration of incorporating the idea into their computer system.