SMART GRANOLA KIOSK

MEET THE TEAM

EZRA SIMPSON
TEAM STRATEGIC SYSTEM LEAD

JOSEPH DAWISHA
FRAMEWORK SYSTEM LEAD

ANTONIO AVILA RAMIREZ
DISPENSING LEAD

MARC GORDON
MEASUREMENT AND MIXING SYSTEM LEAD

SUDARSHAN SURESH BABU
SCE TEAM LEAD

NAOMI TEWOLDE
POWER DISTRIBUTION SYSTEM LEAD

WINSTON LIEW
MOTOR LEAD

AUSTIN VICELONE
SCE MEASUREMENT SYSTEM LEAD

MARK-YVES GAUNIN
USER INTERFACE LEAD

MEET THE SPONSOR

D&K ENGINEERING, INC. PROVIDES PRODUCT DESIGN AND CONTRACT MANUFACTURING SERVICES. THE COMPANY PROVIDED ALL PROJECT FUNDING AS WELL AS FEEDBACK FROM EXPERIENCED MECHANICAL, SOFTWARE, AND ELECTRICAL ENGINEERS. D&K ALSO GAVE USEFUL GUIDANCE TO WORK AND SUCCEED AS AN INTERDISCIPLINARY ENGINEERING TEAM.

THE SMART GRANOLA KIOSK

FULL KIOSK ASSEMBLY

STORAGE AND DISPENSING

MIXING AND MEASUREMENT

PROJECT OVERVIEW

GOAL: TO PROVIDE A SMART GRANOLA DISPENSING KIOSK CAPABLE OF DISPENSING SELECTED INGREDIENTS AND MIXING GRANOLA ALL THROUGH A USER INTERFACE.

OVERVIEW: THE AZTEC GRANOLA FACTORY TEAM IS RESPONSIBLE FOR DELIVERING A FUNCTIONAL KIOSK WITH FOUR MAIN SUBSYSTEMS:

- FRAME
- STORAGE
- DISPENSING
- MEASUREMENT

ACCOMPLISHMENTS

- DISPENSING AND MIXING GRANOLA WITH MOTORS
- MEASURING THE WEIGHT OF THE FINAL PRODUCT
- OPERATING THE KIOSK WITH AN INTERACTIVE USER INTERFACE
- SUPPLYING AND DISTRIBUTING POWER FROM A COMMERCIAL POWER OUTLET
- SCHEDULING AND MEETING DEADLINES AND MILESTONES DEFINED IN THE PROJECT OUTLINE

ACKNOWLEDGMENTS

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KIOSK DETAILS

SYSTEM LEVEL DIAGRAM

SCAN THE QR CODE BELOW TO VIEW THE TEAM'S PROCESS OF DESIGNING AND BUILDING THE KIOSK

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