



SMART GRANOLA KIOSK



MEET THE TEAM



EZRA SIMPSON
TEAM/STORAGE SYSTEM LEAD



JOSEPH DAWISHA
FRAME/RAIL SYSTEM LEAD



ANTONIO AVILA RAMIREZ
DISPENSING LEAD



MARC GORDON
MEASUREMENT/MIXING SYSTEM



SUDARSHAN SURESH BABU
ECE TEAM LEAD



NAOMI TEWOLDE
POWER DISTRIBUTION LEAD



WINSTON LIEW
MOTOR LEAD



AUSTIN MCELRONE
ECE MEASUREMENT SYSTEM LEAD



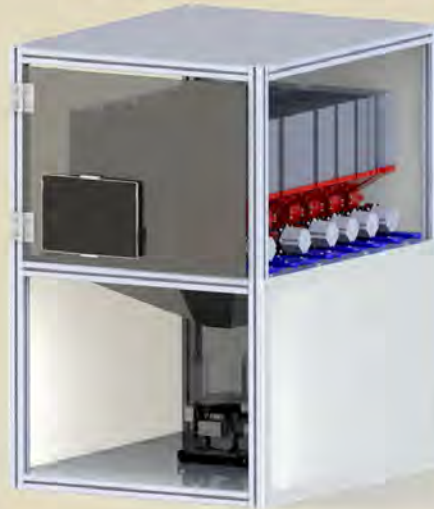
MARK-YVES GAUNIN
USER INTERFACE LEAD

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



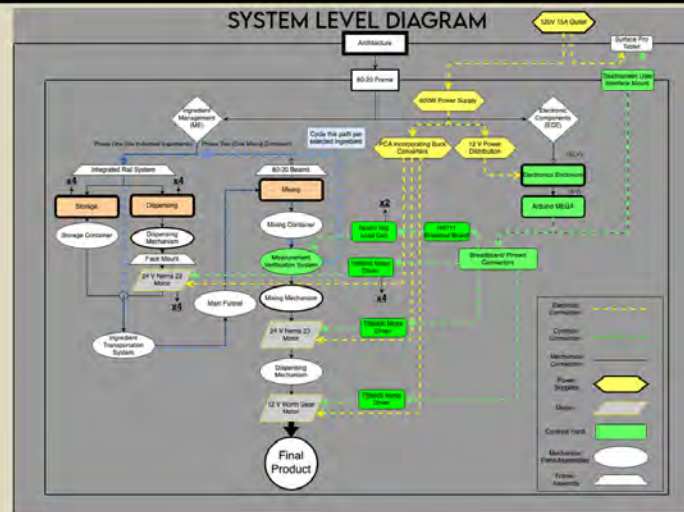
STORAGE AND DISPENSING



MIXING AND MEASUREMENT



KIOSK DETAILS



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



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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