

# Project

Current Washer-Dryer Units take over 6 hours to completely clean a single load of laundry

- The drying cycle is what causes the long cycle time
- To dry the clothes, a dehumidifier is employed to remove water, little to no heat is used to help dry

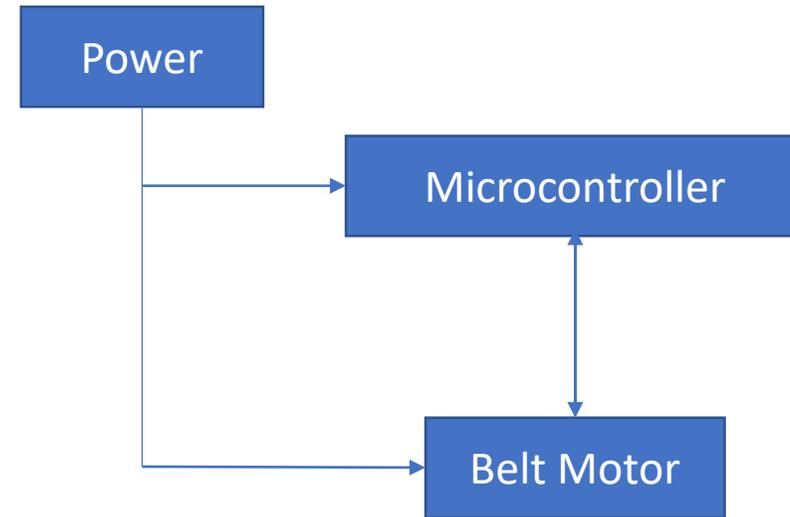
This system

- Uses a modified drum to create more space inside the machine

# Machine



# System



# Methods

Motor

- 12V DC Motor is used to rotate the drum

Control Module

- STM32 Microcontroller is used as the main control terminal
- Three cycles to choose from

Drum Modifications

- Spirals on the inside to move clothes from one part of machine to other
- Tapered drum