Whoopy Wipes: Sterilized Towelette Hygiene Device

Project Goal
Create a working prototype of a hygiene device that intakes a blister cartridge, dispenses 2 towelettes into an ejection tray, and then sprays water heated to 165°F onto the towelettes before ejecting them for personal hygiene use.

Our Design (Phase II)
- Water Reservoir
- Heating Chamber
- Clock/Peripherals
- Microcontroller: Teensy 3.2
- Cartridge Loading and Wipe Dispenser
- Ejection Tray
- Cartridge Loading/Dispensing
- Water Reservoir
- Electronics/Power Supply
- Ejection Tray
- Water pumps into heat exchanger vessel
- Wipes guided to ejection tray
- Ejection tray moves to heated chamber
- Air pump forces water to spray wipes
- Ejection tray opens for user retrieval
- User initiates cycle

Project Timeline: Winter 2020

Company Sponsor
Jon Stevenson
Steve Wild
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Team Structure
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Prototype Budget (Dollars)
- Cartridge Loading/Dispensing: $43
- Water Reservoir: $61
- Ejection Tray: $68
- Microcontroller: Teensy 3.2: $122
- Heating Chamber: $122
- Electronics/Power Supply: $61
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