EZ MEDS

LIQUID MEDICINE DISPENSER

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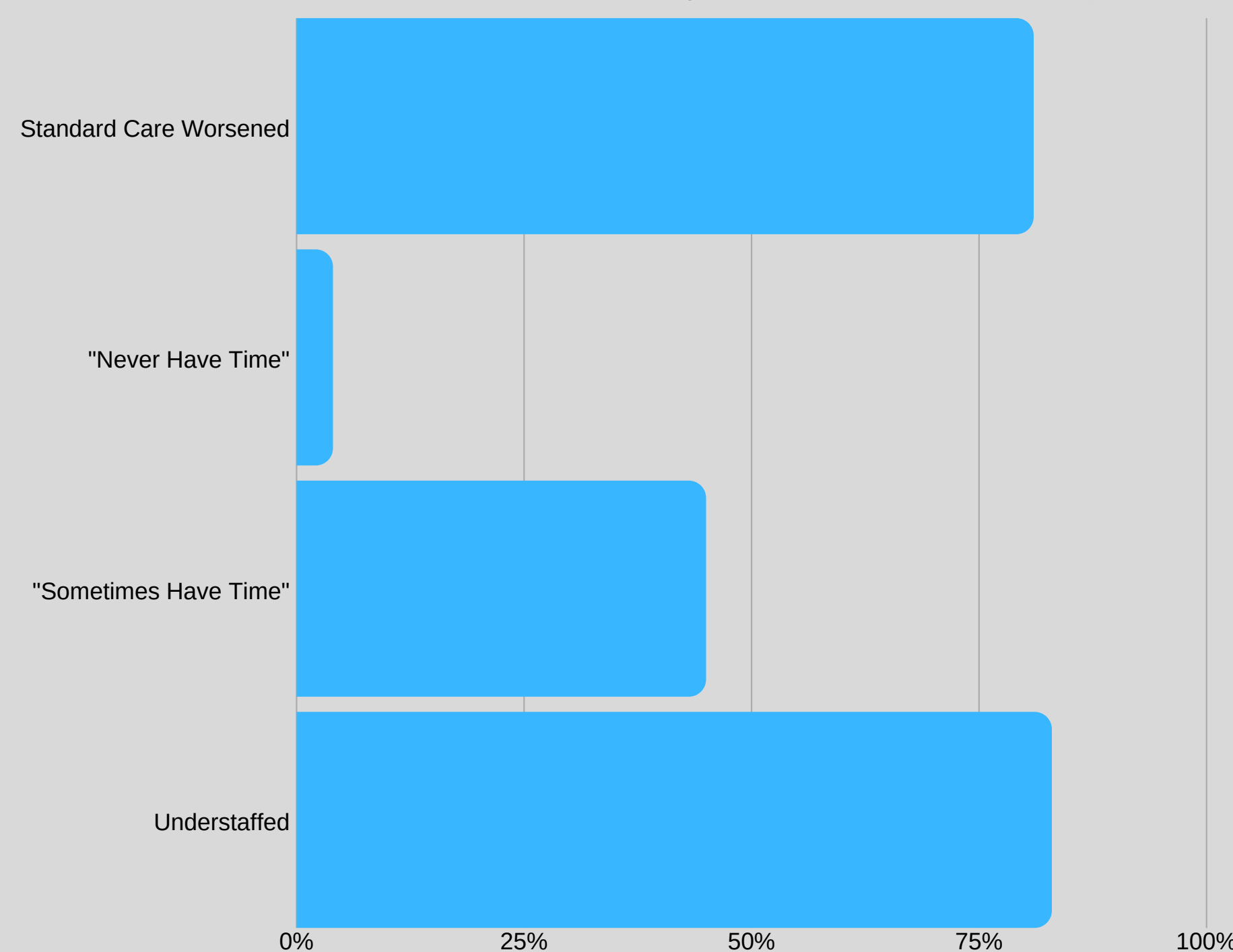
EZ MEDS
liquid med dispensers

INTRODUCTION

EZ MEDS is a liquid medicine dispenser designed to inform users automatically to take their medicine, resulting in the dispensing of the correct dosage amount.
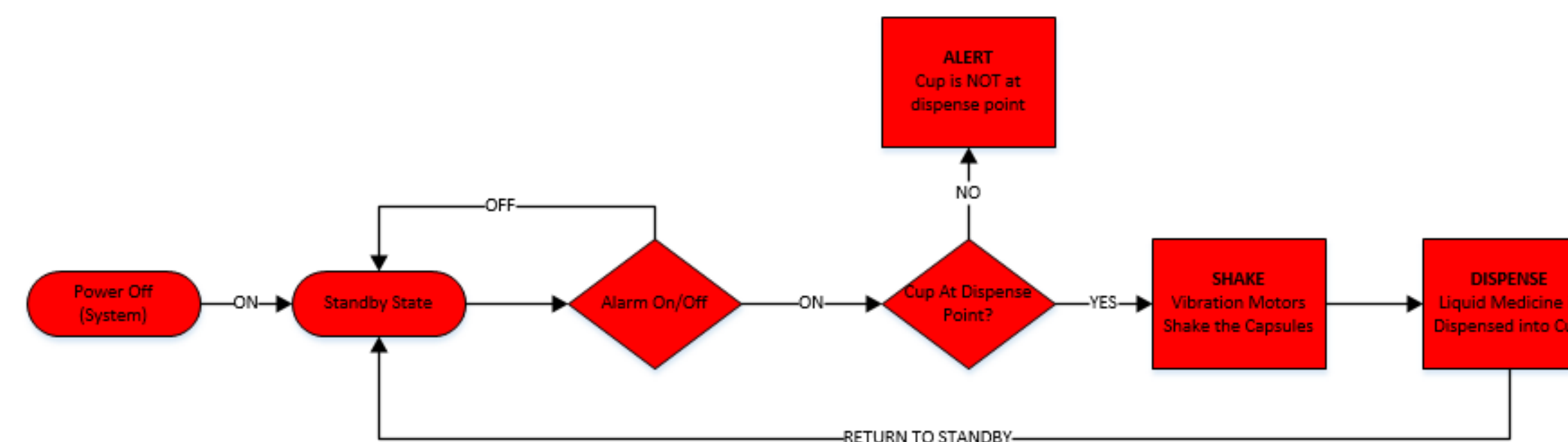
- Designed to **decrease percentage of under-dose & overdose**
- The first model liquid medicine dispenser that will **assist nurses & other health care providers**
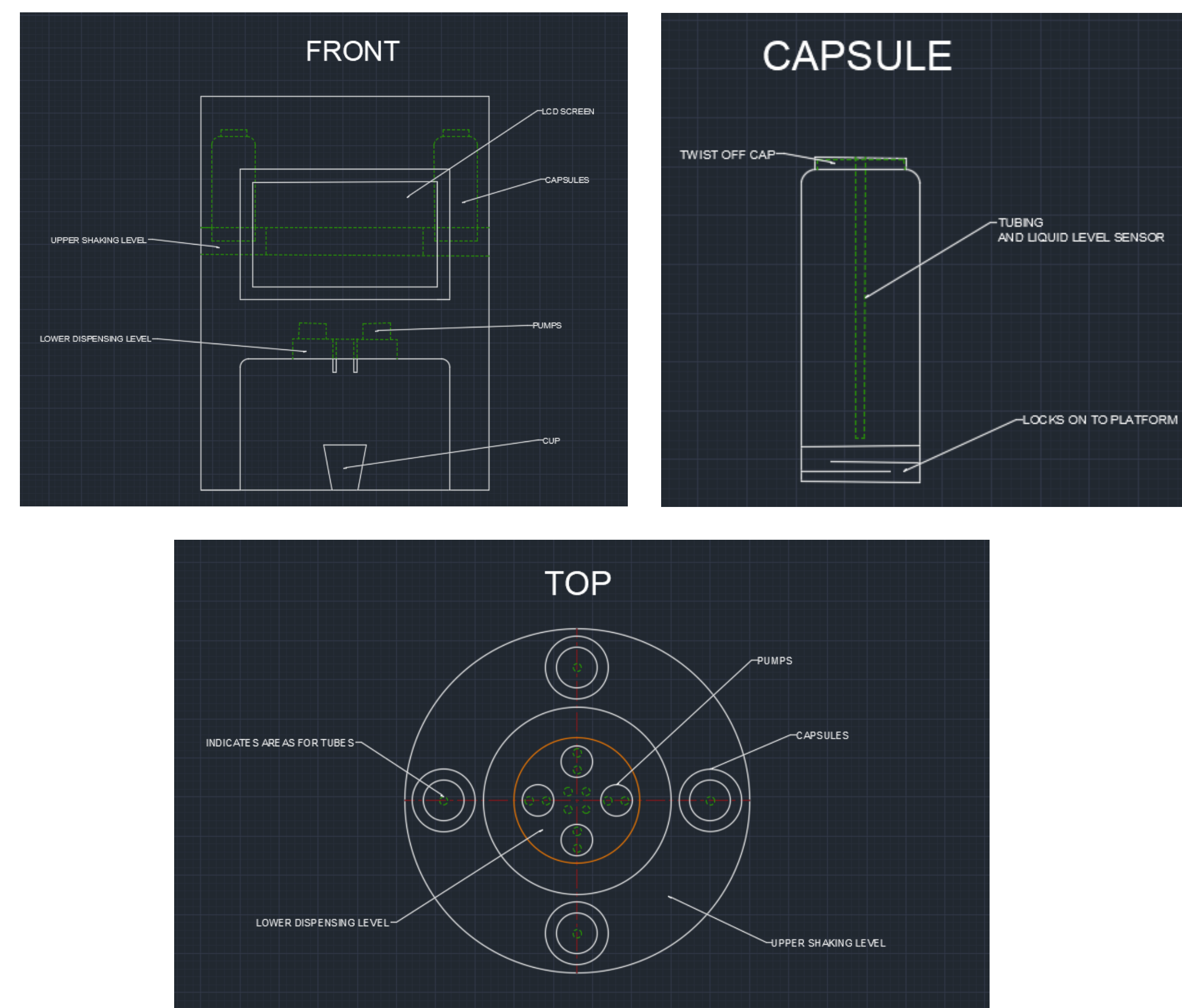- Uses alarms & sensor systems to decrease preparation time

PROBLEM

In 2017, a poll was taken on 3,000 nurses to see how standard safety care is changed
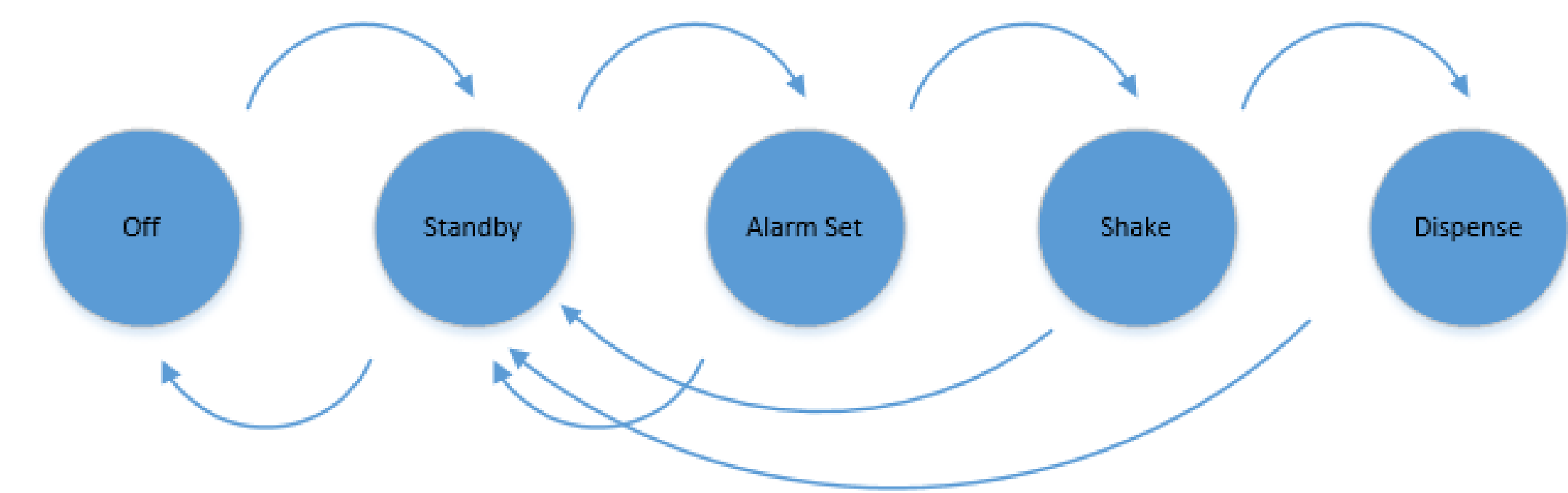

FLOW CHART

DIAGRAM

FRONT

CAPSULE

TOP

FINITE STATE MACHINE

Off — Standby — Alarm Set — Shake — Dispense

HARDWARE | SOFTWARE

Microsoft Visual Studio

POWERED BY Raspberry Pi

ARDUINO

- Arduino Mega
- Raspberry Pi Computer
- Microsoft Visual Studios
- Electric Peristaltic Pumps
- Conductive Metal Tubing

CONCLUSION

- Automatically dispenses precise dosage to ensure user safety
- Allows caretaker or nurse to practice safer standard care for patients

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