Medication Buggies

Jasmina Gafurova, Redzuan Raffe, and Ethan Stelmakh

Our Team

Jasmina Gafurova

- Chemistry and Music Double degree with Pre-Med Concentration
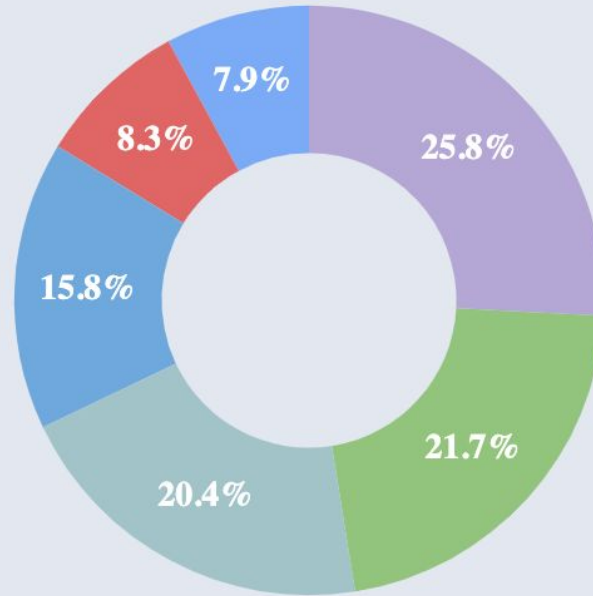-Medical Assistant at NOVA Patient Care

Redzuan Raffe

-Economics and Finance Double Major
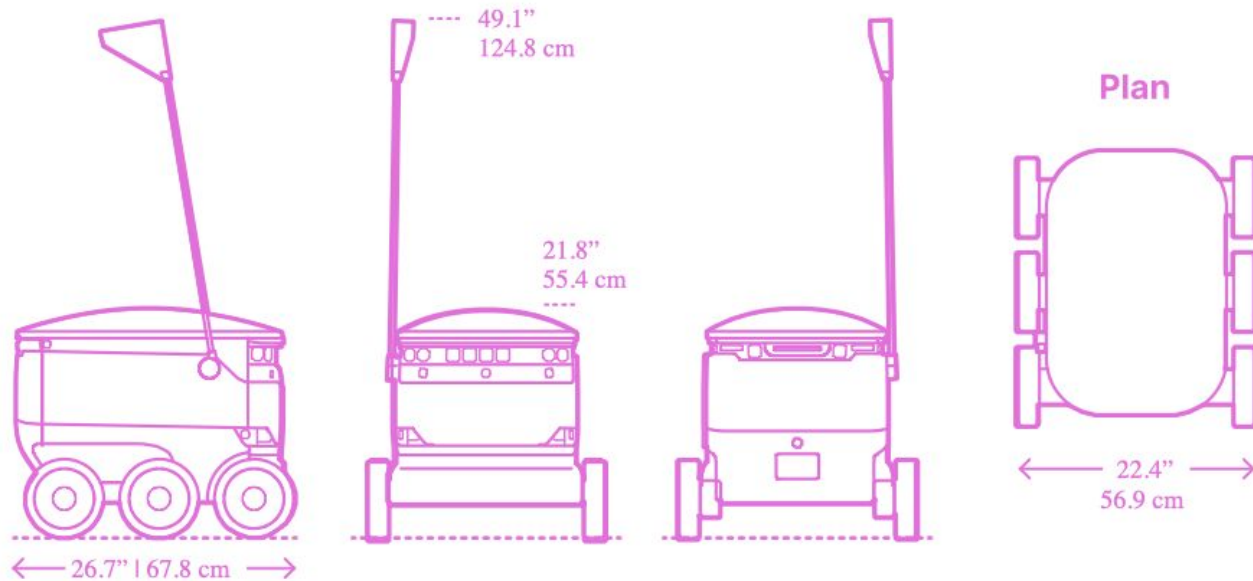-Pitch George 2x Finalist (won one)

Ethan Stelmakh

- Business and Public Health Double Major
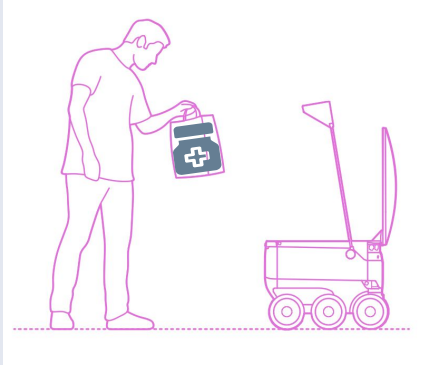- Certified Pharmacy Technician at GW Hospital

Why Medical Errors Happened

- Using acronyms of names — 25.8%
- Similar names of drugs — 21.7%
- Lack of pharmacological knowledge — 20.4%
- Few number of nurses compared to patients — 15.8%
- Too busy and tired from excessive work — 8.3%
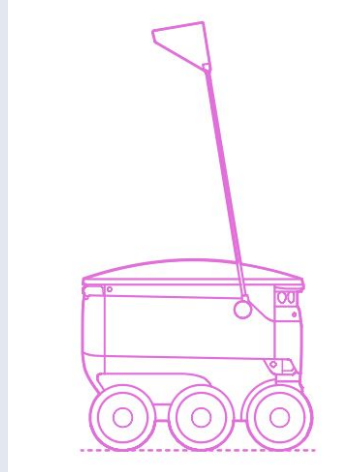- Large drug variety in med cabinet — 7.9%

Medication Buggies!
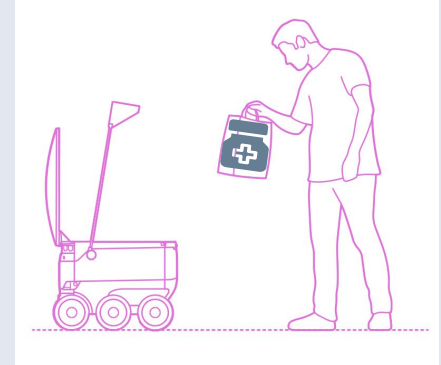
New Process of Medication Delivery
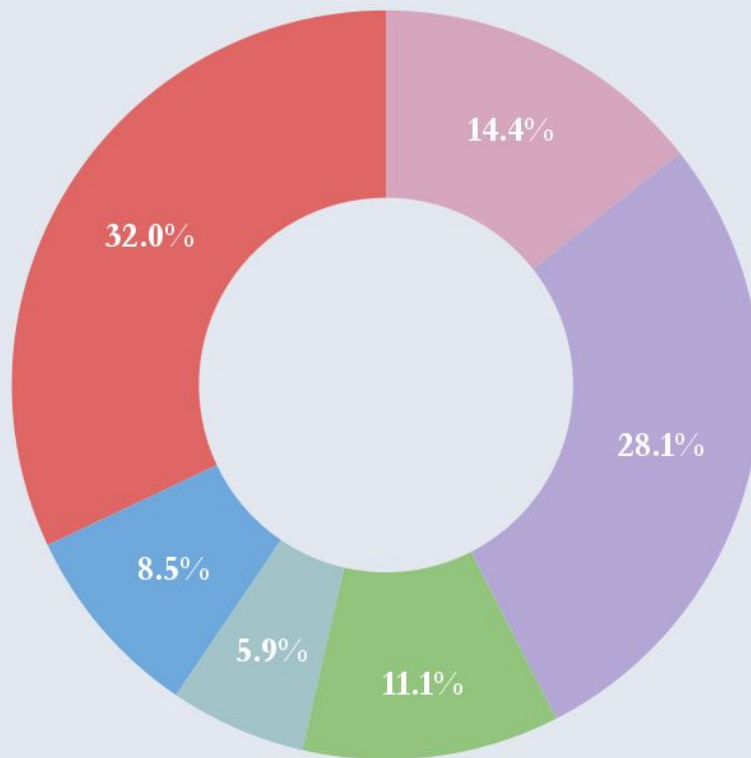
Dispensing

Verification

Administration

Types of Nursing Medication Error

- Giving Medication at non-scheduled times
- Giving the wrong dose of medication
- Giving medication of two doses at one time
- Giving a patient's drug to another one
- Drug Elimination
- Wrong infusion rate

14.4%

28.1%

11.1%

5.9%

8.5%

32.0%

User Interface

UI Continued

Commands

Back

Buggy Selected: [24]

Recall Buggy

Dispatch Buggy

Load Buggy
(opens buggy compartment)

Tasks

Back

Buggy	Task	Location
1	Delivering to Room 304	2nd Floor Hallway
2	Recalled from Room 902	9th Floor Reception
3	Awaiting nurse in Room 437	Room 437
4	Standby Mode	2nd floor Pharmacy
5	Delivering to Room 789	In Elevator 7
6	Delivering to Surgical Suite 340	In Elevator 3
7	Standby Mode	2nd floor Pharmacy
8	Charging	Buggy Room
9	Charging	Buggy Room

Finance and Equity

18 hours per charge

Lifespan of 60 months

32,400 Hours of lifetime use

$0.17 Per Hour

Thank you!