Artists in Waste Removal

Product: Robotic Trash Cart (RTC)

Artists in Waste Removal



Jacob Emerson, CEO

Mechanical Engineer



Oscar Flores, CFO

Computer Engineer & Electrical Engineer



John Williams, CTO

Electrical Engineer

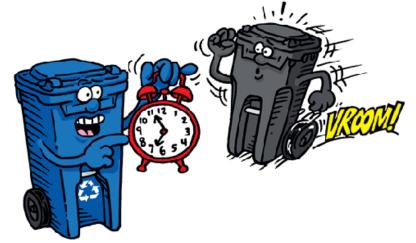


Bishoy Morkos, COO

Mechanical Engineer

The Problem











Opportunity

U.S. waste management industry revenue in 2016 was \$70.4 billion

26% of Americans over the age of 65 live alone

"Baby Boomers" generation will be doubling the senior population in the upcoming years





Customer Interviews

... My friend had

such a long driveway that they

paid their neighbor to come

take out the trash for

them."

Consumer 1 Consumer 2

"[Waste bin is] so heavy

sometimes I can't bend it

towards me to pull it to

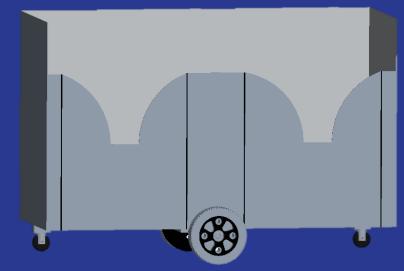
"The distance of having

a long driveway is my

biggest problem I'd say."



Robotic Trash Cart



What is the RTC?

The Drive System from a Kiddie Car

The Autonomous

Actions of a Roomba

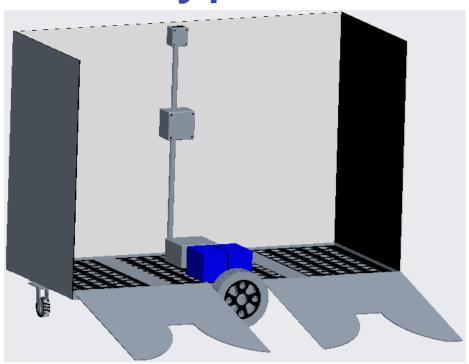
The Ruggedness of a Garden Cart







Prototype



- Rechargeable
- Scheduling capabilities
- Open/Closed Garage
 Door
- Carries both garbage and recycling bins

Prototype Build





Markets

- Residential
 - Elderly living communities
 - Disabled residents
 - Homeowners



- Waste Management Companies (WastePro)
- Construction sites
- Manufacturing facilities
- Companies that have heavy amounts of waste or recyclables



Manufacturing and Revenue

Manufacturing Cost per unit: \$300.00

Potential Revenue Streams:

- Licensing Contract
- Service Contracts
- Leasing Contracts



Other AWR Opportunities



Single unit waste bins

- Sense when they are full
- Self-navigate to a central waste site
- Streamline waste disposal for businesses

Designed for locales with dense foot traffic, such as...

- Amusement Parks and Stadiums
- Universities and college campuses
- Local, state, and federal parks

