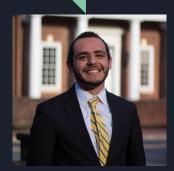
Founded & Located: Newark, DE 2018

Meet the Team

DABE



Amjed Hallak, Chief Executive
Officer. Employee
for Phase
Sensitive
Innovations.
Pursuing BS,
Electrical

Engineering at UD



Morgan Sanchez, Chief Marketing Officer. Pursuing BS, Computer Engineering at UD who will be IT Project Manager Intern



Nolby Kuratnick,
Chief Operating
Officer. Electrical
Engineering major
who will be doing
research for the
Department of
Defense



→ Sam Romano,
Chief Technical
Officer. Electrical
Engineering major
who wants to
develop and
market the next
big thing



Ajay Mani,
Chief Financial
Officer. Pursuing
BS, Electrical
Engineering at UD
who wants to
research medical
technologies

Problem Area

DABE

Focus Areas of Opportunity:

- Diabetes
- Hygiene/Cleanliness ————
- Mental Cognition



Problems:

- Test strip removal
- Disposal of strips & sharps
- Testing BG consistently



Diabeasy

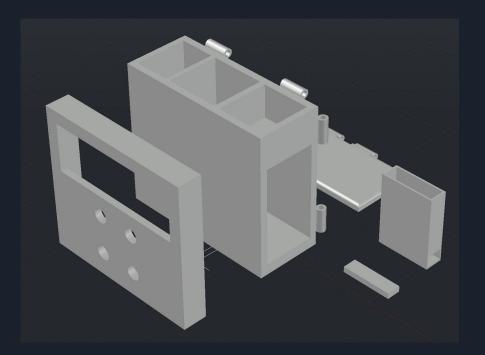


~800% increase in Diabetes in last 50 years¹

Prevalence of Diabetes: 30.3 million Americans²

Value to Customer:

- 1. Ease of Use
- 2. Convenient
- 3. Clean



Diabeasy Concept



Box Design

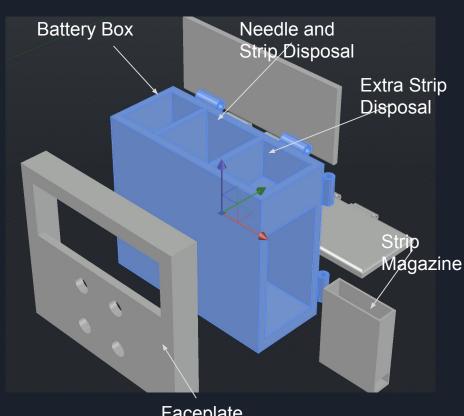
Spatial Efficiency

<u>Circuit</u>

Solenoid, RTC, LCD Screen, Nano

Software

4 modules, Ground Up



Faceplate

Plan of Business



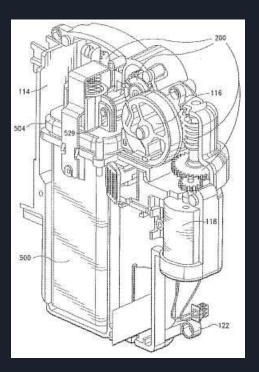
- → Marketing
 - Social Media
 - Doctors, Professionals
 - Magazines, TV
- → Management and Staff
 - ♦ 5 Chiefs
 - Lawyer
 - ◆ Accountant
 - Marketing Team
- → Production and Creation
 - Factory and Machines
 - Machinists
 - Designers



Competition

<u>US Patent</u> <u>WO20060007922A1</u>

- Electro-mechanical
- Expensive to Produce
- Never came to Market



DABE

The Shaker

- Plastic
- Very Cheap and Easy to Produce
- Not User-Friendly



Market Size & Sales



Americans 65+ with Diabetes: 12 Million

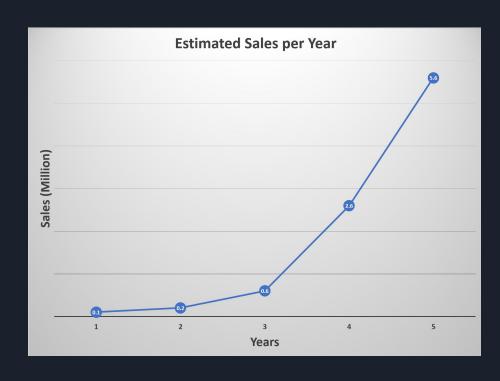
Americans with Diabetes: 30.3 Million

Total People with Diabetes: 425 Million

Expected Total with Diabetes 2045: 629 Million

30 percent of Market: 3.6 / 9.1 / 127.5 / 188.7 Million

Unit Sale Cost: \$30



Earning Potential: \$108 / \$273 / \$1,148 / \$5,661 Million

Our Advantages



- 1. All-In-One
 - a. Dispenser
 - b. Test Strip Counter
 - c. Alarm/Reminder System
 - d. Storage for Disposal
- 2. Spatial Efficiency
- 3. Created by Diabetics



Timeline



| Task Name | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | April |
|--------------------------------------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-------|-------|
| Beta Prototype Completion | | | | | 2 | 180 | | | | -0 | | -30- |
| Beta Prototype Data Collection | | | | | | | | | | | | |
| Data Analysis Completion | | | | | | | | | | | | |
| Final Beta Adjustments before Market | | | | | | | | | | | | |
| Marketing of Diabeasy 1.0 | | | | | | | | | | | | |
| Mass Production of Diabeasy 1.0 | | | | | | | | | | | | |
| Full Release of Diabeasy 1.0 | | | | | | 7.5 | | | | | | |

Total Prototype Cost \$29.08

Diabeasy 1.0 Cost \$8.89

Diabeasy 1.0 Customer Cost

\$30



THANK YOU Questions?

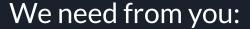
Business



Estimated Market ~ 9.1 million People

Test Strips Sold Annually ~ \$119.47M

Minimal Competition



- 1. Time
- 2. Experience
- 3. Money



Diabeasy Hardware



- Simple interaction, only four buttons
- Magazine is easy to remove, held in by magnets
- Disposal is easy to use, just hinged doors



Prototype Material Cost

| Plastic Housing | ~\$3 | | |
|----------------------|---------|--|--|
| Arduino Nano | \$3.80 | | |
| 2x16 Bit LCD Screen | \$5.99 | | |
| Four Buttons | \$5.24 | | |
| Small Solenoid | \$4.95 | | |
| Small Spring Set | \$6.10 | | |
| Total Prototype Cost | \$29.08 | | |

Diabeasy Final Material Cost

| Plastic Housing | \$0.75 |
|---------------------|--------|
| Microcontroller | \$1.00 |
| 2x16 Bit LCD Screen | \$5.00 |
| Buttons | \$0.20 |
| Solenoid | \$1.50 |
| Spring | \$0.50 |
| Cost/unit | \$8.89 |

Diabeasy Code

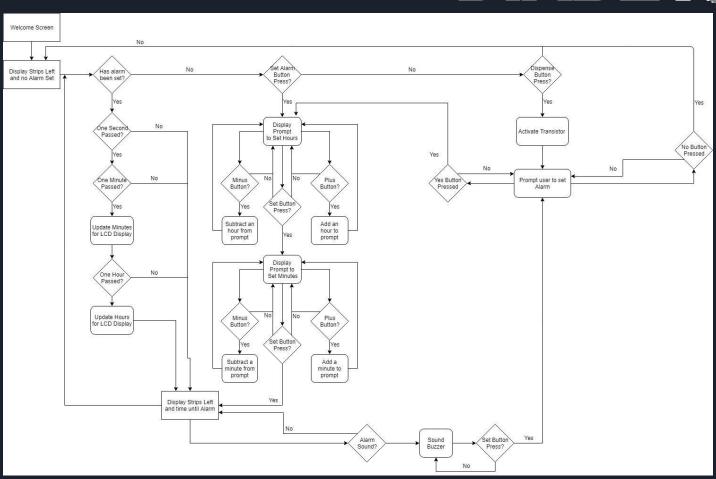
- Main constraint is ease of use, had to make code that flowed in order to facilitate this
- Used same three screens in all operations of device for easy to learn and use

DABE



Flow Chart





Works Cited



"Assisted Living Statistics." ASC Senior Care, American Senior Communities, 28 Aug. 2017, www.ascseniorcare.com/assisted-living-statistics-a-deeper-dive-into-the-demographics/.

- 1. "Data & Statistics." *CDC*, Centers for Disease Control and Prevention, 14 Nov. 2017, www.cdc.gov/diabetes/data/.
- 2. "Statistics About Diabetes." *Diabetes*, American Diabetes Association, 19 July 2017, www.diabetes.org/diabetes-basics/statistics/.