## LenusWEAR

an interactive, automated compression sweater

Sarah Chowdhury, Margarita Groisman, Nastasia Klevak

# 57.5 million

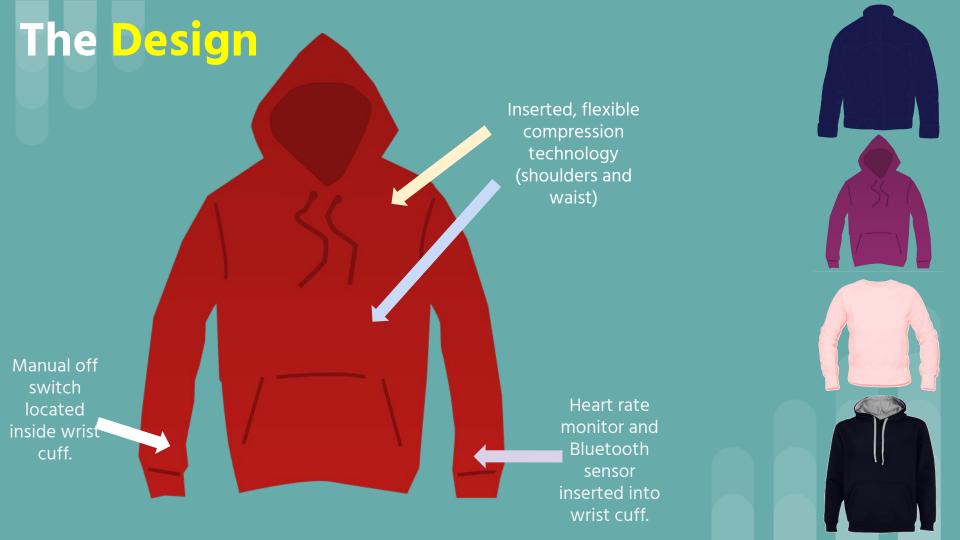
people suffer from acute anxiety, attention-deficit disorders and autism - a symptom of which is stress on the nervous system.

## The Solution?

## Lenuswear

- Compact, comfortable sweaters containing built-in compression technology
- Uses built-in heart monitor connected to app to sense rising heart rate associated with anxiety
- Provides sensory pressure on waist and shoulder area to create a sense of calm and concentration!







### **How does it work?**

compression begins! (lasts for up to 20

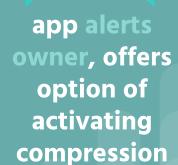
minutes)



heart rate cuff senses increased heart rate



bluetooth
sensor
sends
message to
the app





## The app

- Displays user heart rate at all times
- Sends alerts whenever heart rate is indicative of anxiety
- Includes manual control switch for compression
- Controls compression intensity
- Provides profile of past history and settings



## Why does it work?

 Research shows that deep touch pressure stimulation activates pressure points around the body

This activation releases serotonin and melatonin while decreasing cortisol (stress) levels

 The nervous system is relaxed, and a sense of increased calm and concentration is created

#### LenusWEAR

## How are we different?



- Weighted vests
  - Bulky, heavy
  - Conspicuous
  - Inconvenient to transport
  - Not automated

https://funandfunction.com/weighted-compression-vest.htm

- Other solutions
  - Compression technology is based on activity sensors, not on heart rate (prevents assistance in stationary stress instances)
  - Expensive
  - Do not notify user when activation is necessary
  - Conspicuous





## Business Plan



Research, Test, and Design

#### Phase 2

**Market Entry** 

#### Phase 3

Long-Term
Sustainability
and Growth



**Constant Innovation** 

## Cost Breakdown



Component	Cost
Sweater	\$20
Bluetooth Device	\$30
Pressure Technology	\$80
Heart Rate Monitor	\$30
Cost of Production	\$20
Total Cost	\$180

Selling Price: \$250

**Total Profit: \$70** 

## LenusWEAR

### How can we innovate?



- Use gathered data for large-scale research
- Apply LenusWEAR to a larger audiences (PTSD, loss, other nervous disorders, etc)
- Make sure application is available on all interfaces
- Create new designs (T-shirts, vests, etc)



## Who can we help?



- Currently, LenusWEAR is aimed at those suffering from ADHD, autism, anxiety, and other nervous disorders
- With time, we hope to expand to those suffering from PTSD, loss, and other issues of which nerves are a symptom

### About the founders



#### From left to right:

#### **Sarah Chowdhury**

Sarah is passionate about combining medicine and technology. She enjoys Double Chocolatey Chip Frappuccinos and curling up with a good book.

#### **Nastasia Klevak**

Nastasia is interested in applying technology to the medical field. She loves spending her time swimming, solving puzzles, and eating green tea ice cream.

#### **Margarita Groisman**

Margarita is interested in entering the technology and entrepreneurial field. She loves baking, running, and learning new languages.