



GNG2101

The GripMate Project

Hongjian Zhu
Nishchal Nepal
Doga Tuna
Liam Eddenden

WHY A HAND GRIP DEVICE?

- Brain injuries
- Arthritis
- Thoracic Outlet Syndrome
- Parkinson's
- Etc.





Our Problem Statement:

“To design a comfortable, compact device that will help the client perform gripping and pinching motions.”

SKETCH

Sketch:

Front side:



Back side:



Thumb:



Side view:



index:

joint



rubber



motor



plate



string



arduino



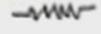
battery slot

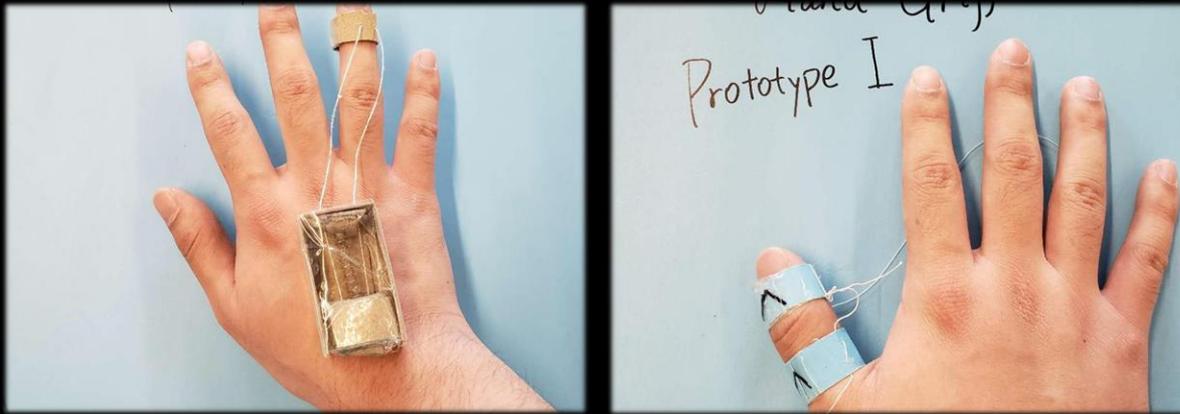


wire



spring



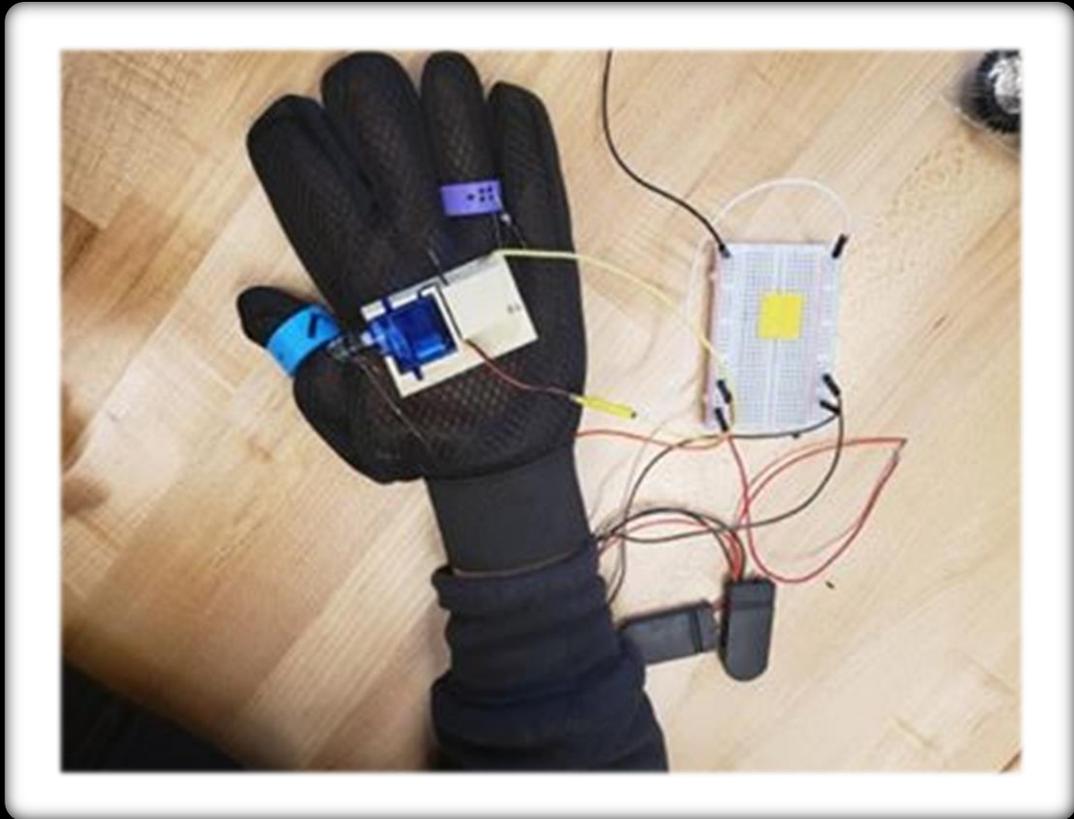


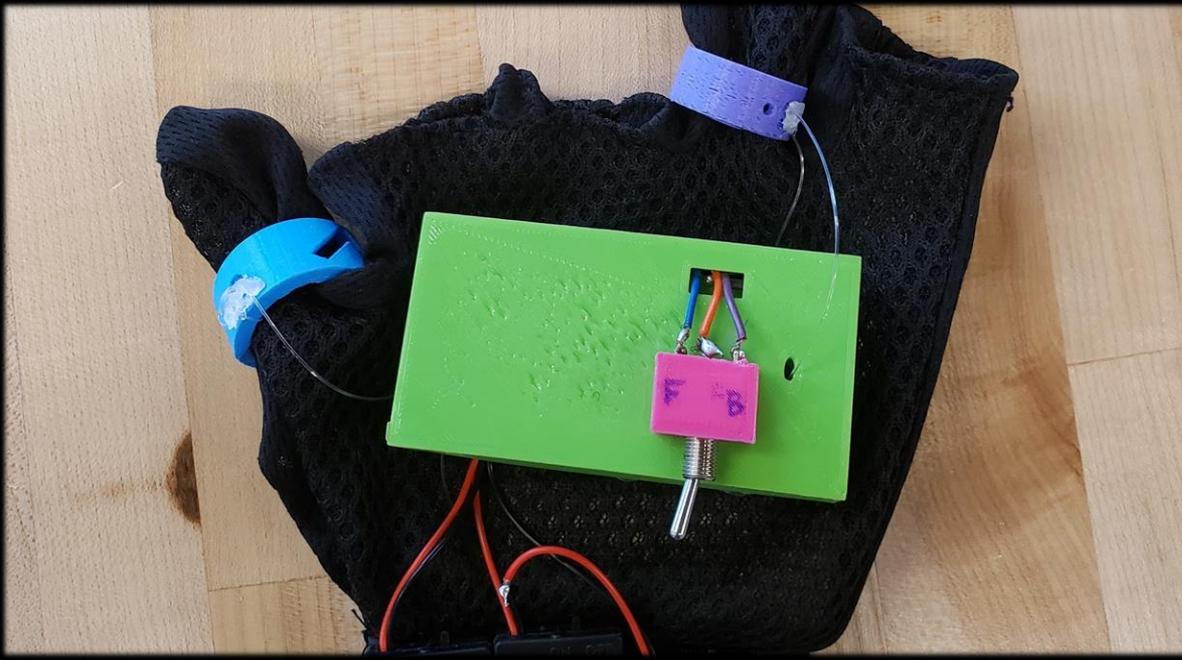
MILESTONES

Prototype 1

MILESTONES

Prototype 2





FINAL
PRODUCT

BUSINESS

“We are an assembling company”

LOOKS LIKE MY WHATSAPP
1YRS SUBSCRIPTION
ENDED

LETS BUY THE
COMPANY

ECONOMIC FACTORS

Costs	Amount (excluding taxes)
Sales (\$120 x 1000 x 3yr)	\$360,000.00
Cost of Goods Sold	\$180,000.00
Gross Profit	\$180,000.00
Operating Expenses (Equipment Expense, Marketing Expense)	\$45,000.00
Administrative Expenses (Rent, Electricity, Water, Payroll, Office supplies)	\$101,100.00
Operating Income	\$78,900.00
Net Income	\$59,175.00

BENCHMARKING

Benchmarking projects	Technology	Price	Sizing	Picture of the Product
Saebo Glove	Manual	\$559 CAD	Small, Medium, Large	
The Third Thumb	Bluetooth- pressure sensors	N/A	One size	
Gripit	Manually	N/A	circular diameter: 30mm Height: 20mm	

COMPARISON

- Price
- Customizable



LESSONS LEARNED

- Wearables are hard to create
- Every task can be broken down
- Teamwork is the key to success

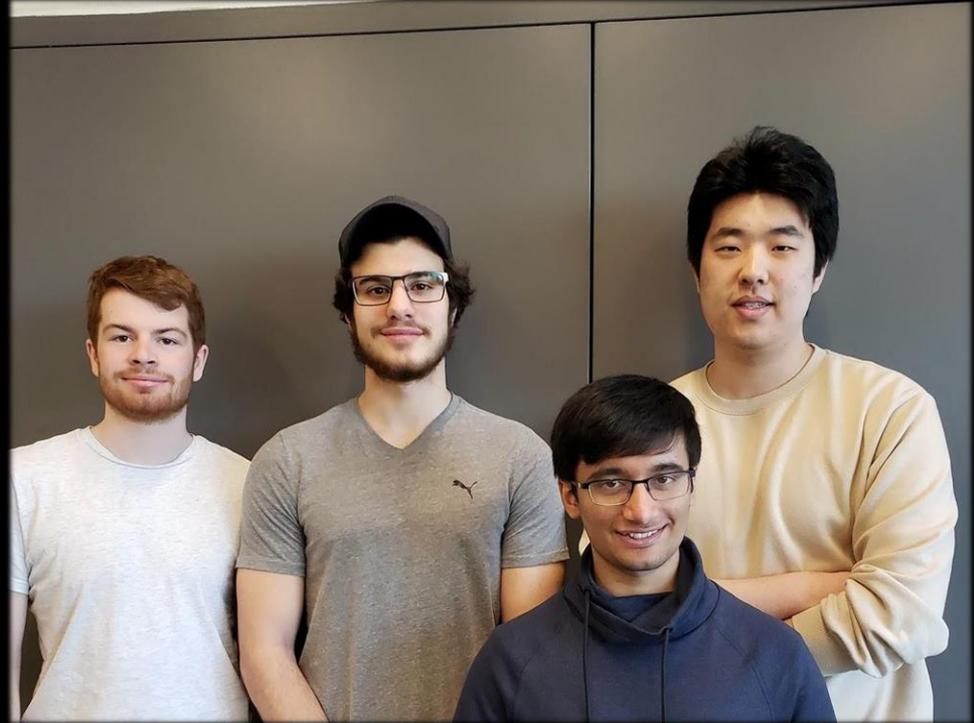


FUTURE WORK

- Better glove
- Rechargeable battery
- Redesign the outlook of the device
- Auto back and forth movement



Thank You
For
Listening



REFERENCES

- <https://www.websitebuilderly.com/how-does-whatsapp-make-money-without-ads/>
- <https://ourperspectiveblog.wordpress.com/2014/12/20/lend-a-helping-hand/>
- <https://www.mckinley-advisors.com/blog/how-do-your-dues-compare-to-member-value/>