



# Human Exoskeleton

## Team J

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*Khaled Alzafairi - 03.20.2017 - Lerner-Exoskeleton-Mount*

# Project Description

- The project is about designing an Adjustable Human-Exoskeleton Mounting Interface.





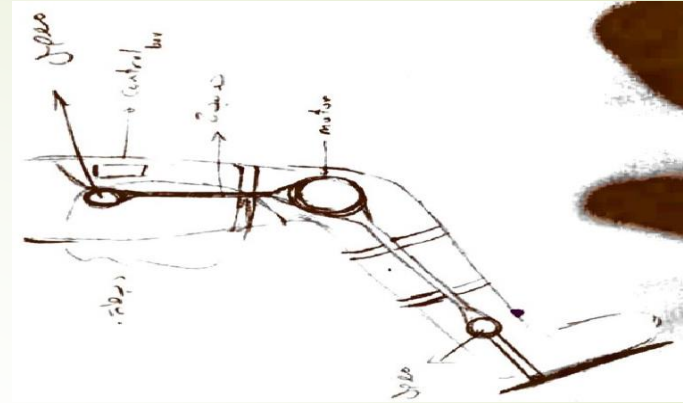
# Project Description

- The team seeks to look into and improve on the following factors:
  - Use strong materials
  - Make the design adjustable
  - Use soft fabric to minimize irritation
  - Ensure that the design is of limited weight
  - Make the system's size reasonable for effectiveness in use and portability

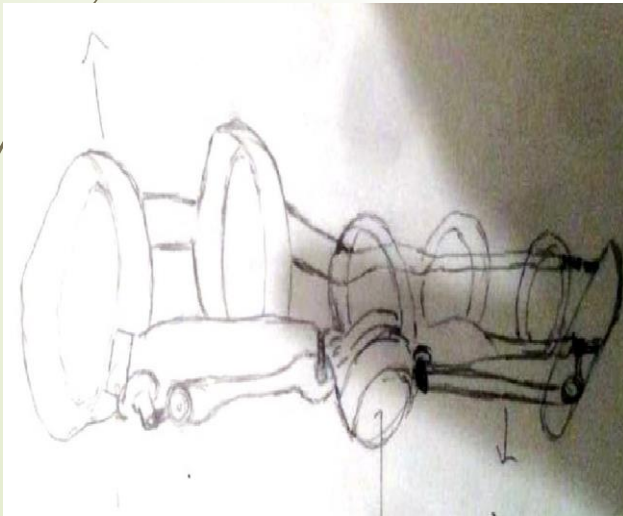
# Design Considered



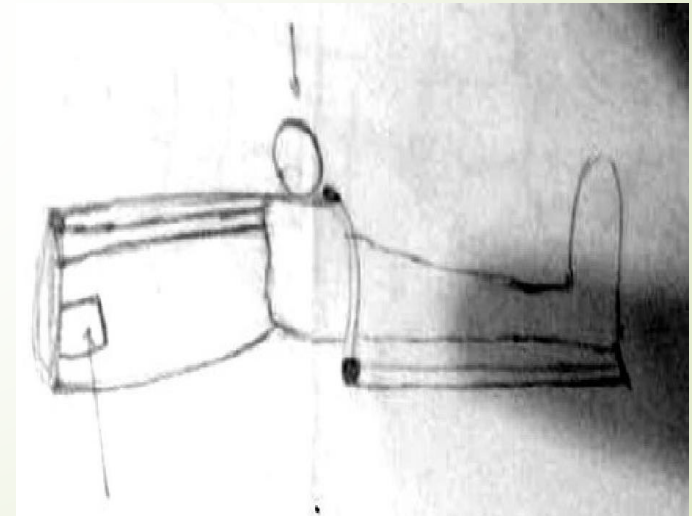
- Adorable to Children
- Hard to wear



- Flexible
- Take time to wear

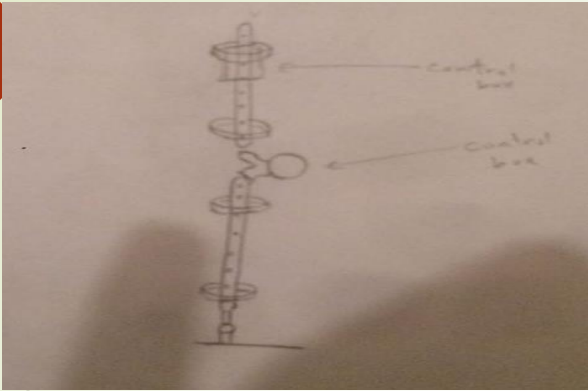


- tight to legs.
- Need help to wear

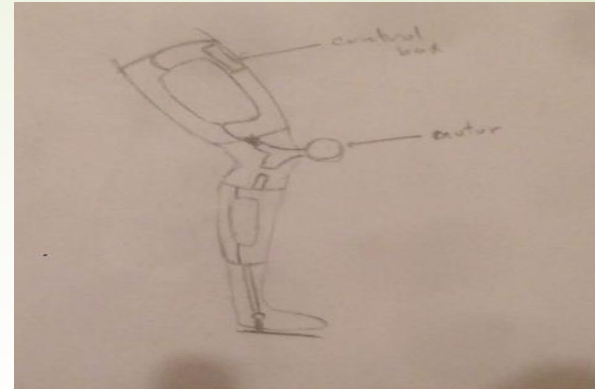


- Controllable
- High weight

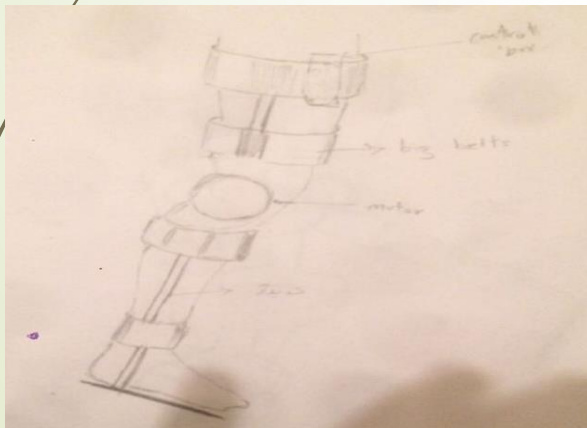
# Designs Considered



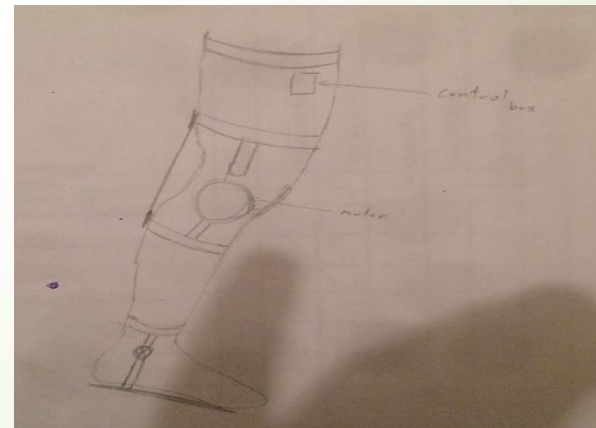
- Lightweight, easy to wear
- Motor takes place



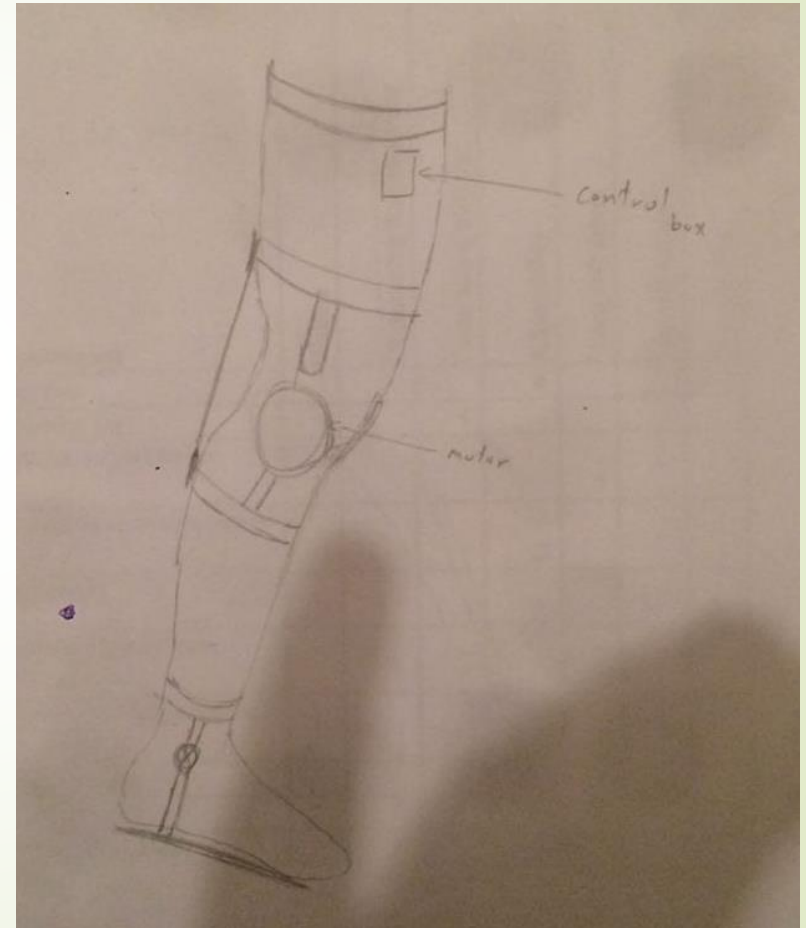
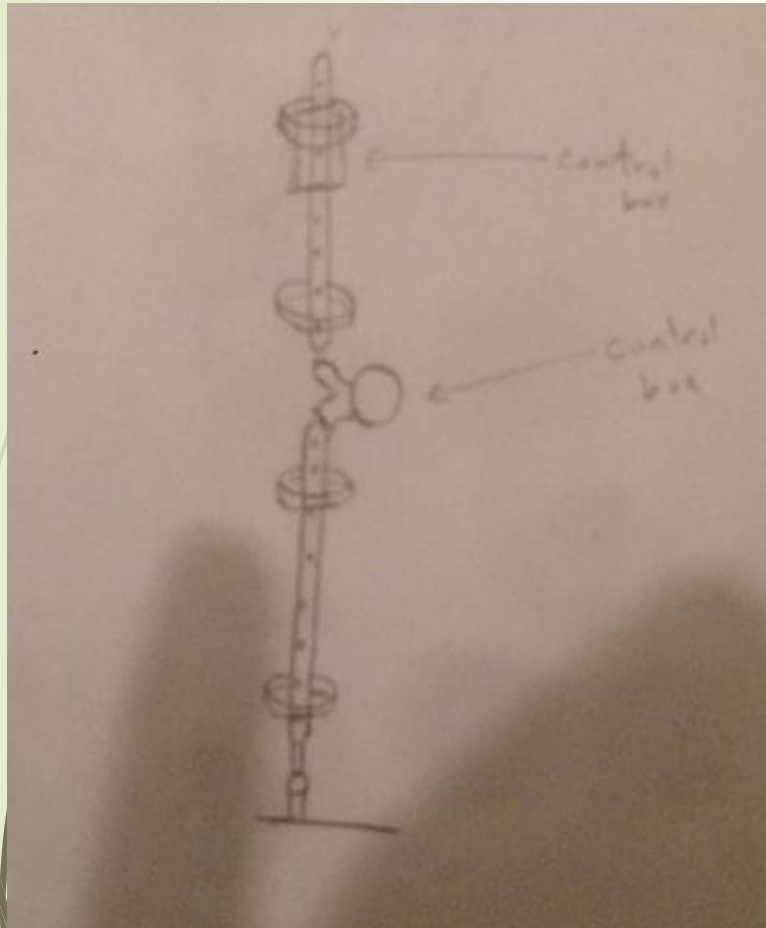
- Adjustable
- Complex to wear



- Low Profile, Lightweight, Insert into normal shoes.
- Hard and expensive to build.

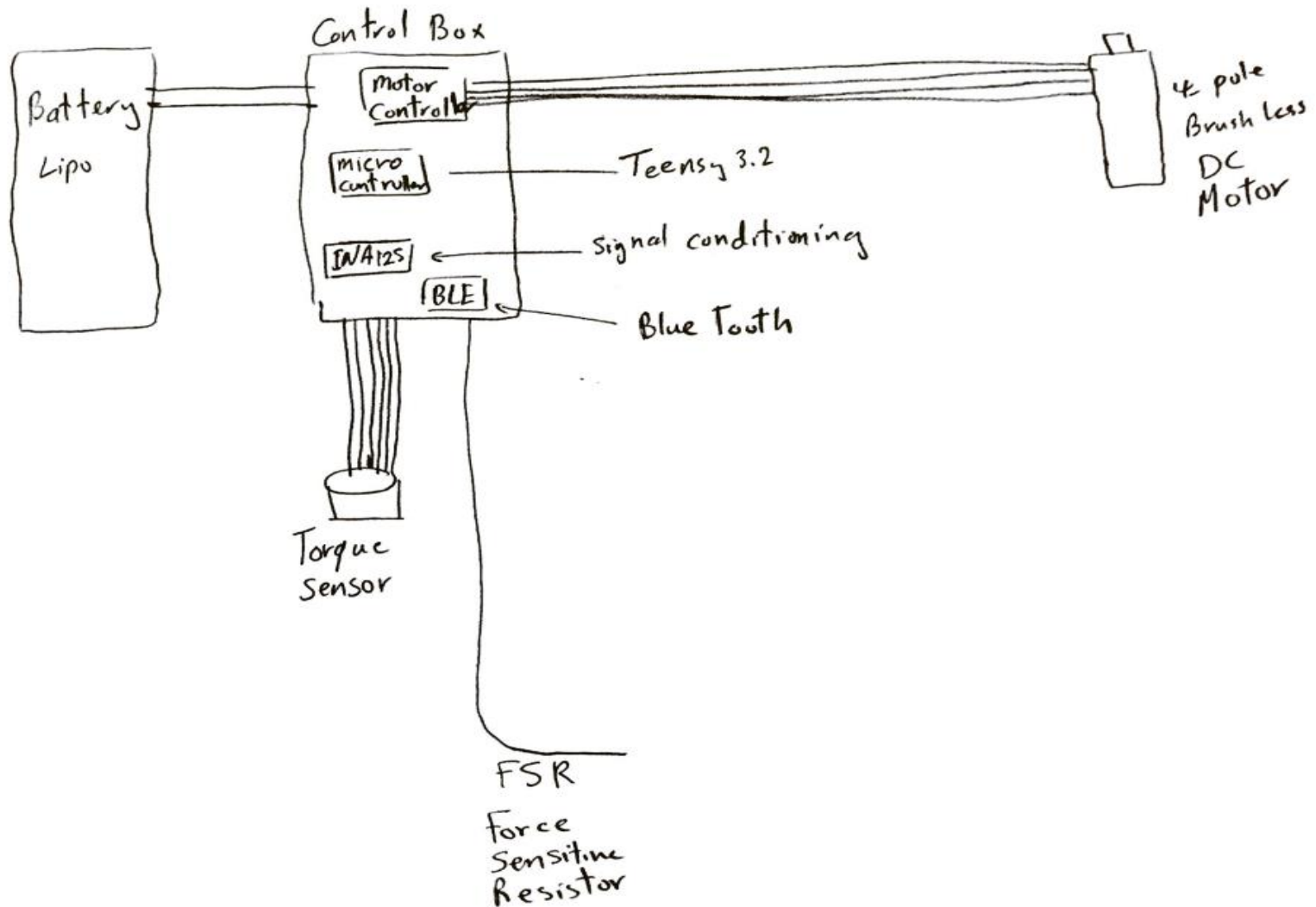


# Design Selected

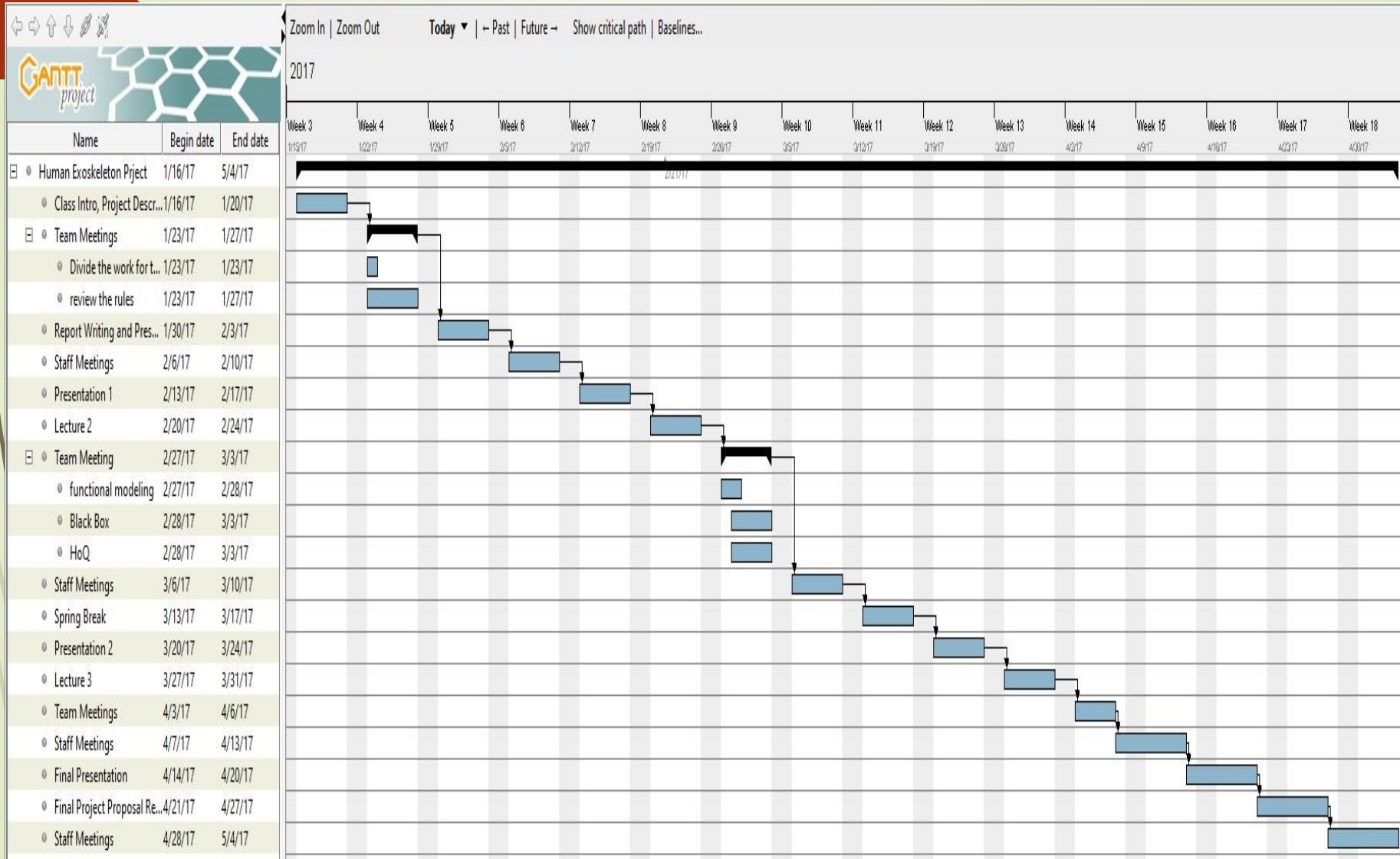


Alroumi Alenezi - 03.20.2017 - Lerner-Exoskeleton-Mount

# Design Selected



# Schedule & Budget



Sayaf Almari - 03.20.2017 - Lerner-Exoskeleton-Mount



# Budget (\$500+Electric System):-

- Estimated Cost :

- 1- Materials (40%)
- 2- Advertisement (20%)
- 3- Manufacturing (30%)
- 4- Prototyping (10%)

- Electric System :

- 1- FSR (\$20.95)
- 2- Micro-controller (\$22.80)
- 3- Blue-tooth (\$24.95)
- 4- Torque Sensors (\$675.00)
- 5- Li-Po Battery (\$62.99)



Questions ?