

# **Mechatronics and Making**

## **Mid Project Report**

# **Exoskeleton Robotic Hand With**

## **Wolf Claw Mechanism**

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# **1 Introduction**

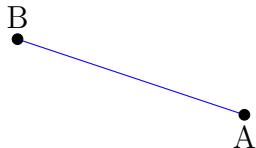
## **1.1 Project Objectives and Description**

## **1.2 Similar Mechanisms**

## **1.3 Industrial Applications**

# **2 Mechanical and Mechanism Analysis**

## **2.1 Drive Method and Transmission**



## **2.2 Fingers and Wrist Mechanisms**

## **2.3 Wolf Claw Mechanism Comparison**

### **2.3.1 Version 1: Planetary Gear**

### **2.3.2 Version 2: Compound Gear Train**

# **3 Mathematical Modelling and Analysis**

## **3.1 Fingers and Wrist Modelling**

## **3.2 Wolf Claw Mechanism Version 1: Planetary Gear**

## **3.3 Wolf Claw Mechanism Version 2: Compound Gear Train**

# **4 Conclusion and Future Work**

## References

[1] author. title. In editor, editor, *booktitle*, year.