Feasibility of a hydraulic powered anthropomorphic prosthetic hand

# Summary

Table of Contents

[Summary 2](#_Toc525831438)

[Table of Contents 2](#_Toc525831439)

[Introduction - Overview 3](#_Toc525831440)

[Background – Types of prosthetics 3](#_Toc525831441)

[Motivation & Aims – Research gap (general) 3](#_Toc525831442)

[Evaluation of current 3D printed prostheses 3](#_Toc525831443)

[Concept development of a full hand prosthesis 3](#_Toc525831444)

[Final design 3](#_Toc525831445)

[Functional evaluation 3](#_Toc525831446)

[Precision 3](#_Toc525831447)

[Grip force 3](#_Toc525831448)

[Discussion 3](#_Toc525831449)

[Acknowledgement 3](#_Toc525831450)

[References 3](#_Toc525831451)

[Appendices 3](#_Toc525831452)

# Table of Figures

**No table of figures entries found.**

# Introduction – Overview

There are over one million people worldwide who have had some measure of upper limb amputation {Mata Amritanandamayi, 2018 #24}, with a projected one million upper—limb amputees to be living in the United States alone by the year 2050 {Perry, 2018 #31}. As a result, there is a continually increasing need for functional prosthetic limbs to assist amputees with activities of daily living, as well as physically demanding work.

## Background – Types of prosthetics

## Motivation & Aims – Research gap (general)

# Evaluation of current 3D printed prostheses

# Concept development of a full hand prosthesis

# Final design

# Functional evaluation

## Precision

## Grip force

# Discussion

# Acknowledgement

# References

# Appendices