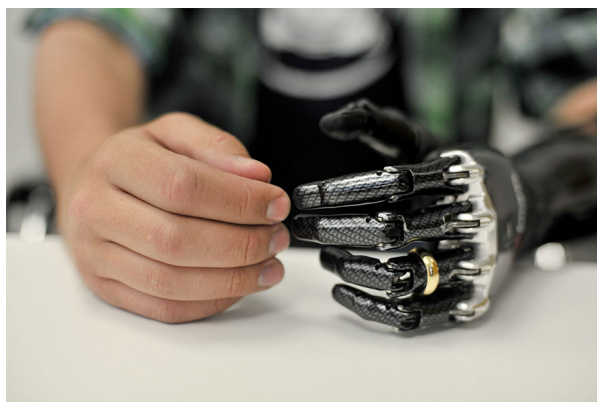Statement of intent:

I intend to make a sports prosthetic arm for Aaron, this arm will allow him to do day to day actions easier and will give him the ability to do rock climbing and bushwalking activities again.

This prosthetic arm will have a sensor on the palm which closes when it's a certain distance away from the wall/object. This grip will be a tight grip allowing Aaron to do all of his rock climbing without needing to worry about the arm detaching or breaking. When Aaron wants to release his grip, he will be given a modified mouth guard which when the button inside is pressed the hand will let go allowing him to do what he loves with ease.

Existing designs:

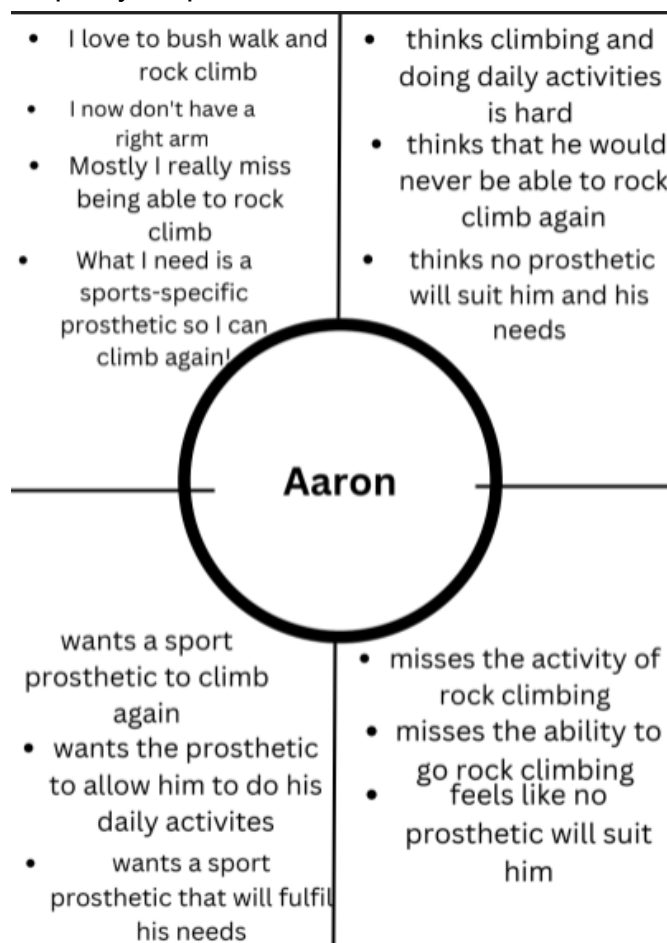|	The arm is made just for rock climbing and my prosthetic can also be used for day to day use
	This prosthetic is too fine around the fingers making to be able to break easier

This is too messy around the back making the wearer weigh. The arm can be used for day to day life making to useable anytime

Empathy map

- I love to bush walk and rock climb
- I now don't have a right arm
- Mostly I really miss being able to rock climb
- What I need is a sports-specific prosthetic so I can climb again!

- thinks climbing and doing daily activities is hard
- thinks that he would never be able to rock climb again
- thinks no prosthetic will suit him and his needs

Aaron

- wants a sport prosthetic to climb again
- wants the prosthetic to allow him to do his daily activites
- wants a sport prosthetic that will fulfil his needs

- misses the activity of rock climbing
- misses the ability to go rock climbing
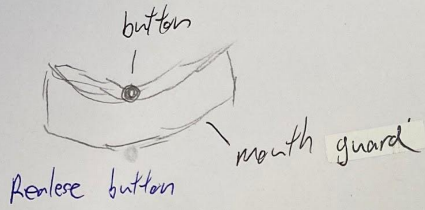- feels like no prosthetic will suit him

Assumptions: Aaron wouldn't mind having a mouth guard in his mouth as long as he can enjoy rock climbing once again

Communications log:

Date	Person contacted	Type of communication	Nature of communication
10/10/23	Aaron	In person	Aaron would be thrilled to obtain a new arm that he can use for rock climbing without it being just a hook. He is looking forward to the prosthetic and doesn't mind the mouth guard

High level pictorial

button

mouth guard

Release button

open grip

wires/frame

bone

closed grip.

Sensor to
close arm