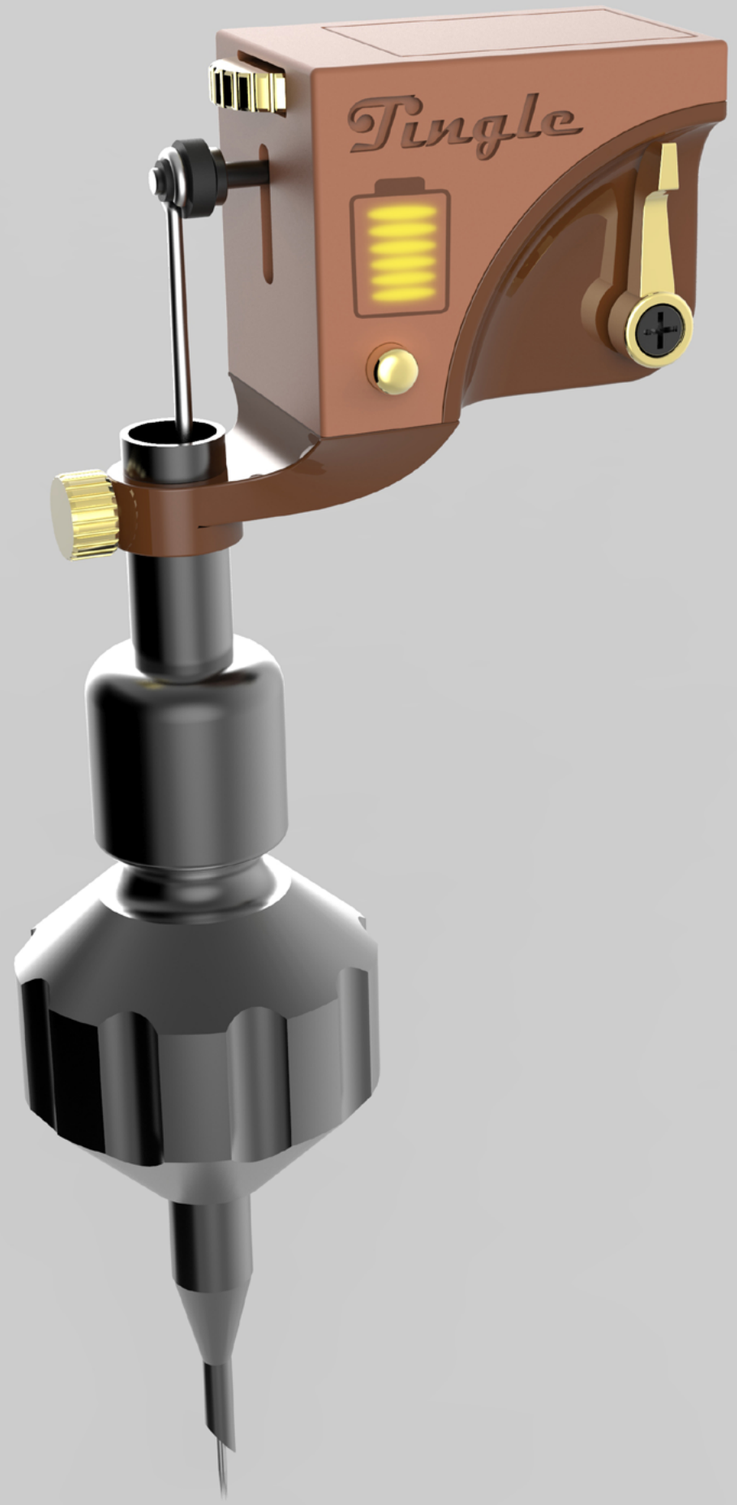
THE FUTURE OF TATTOO MACHINES

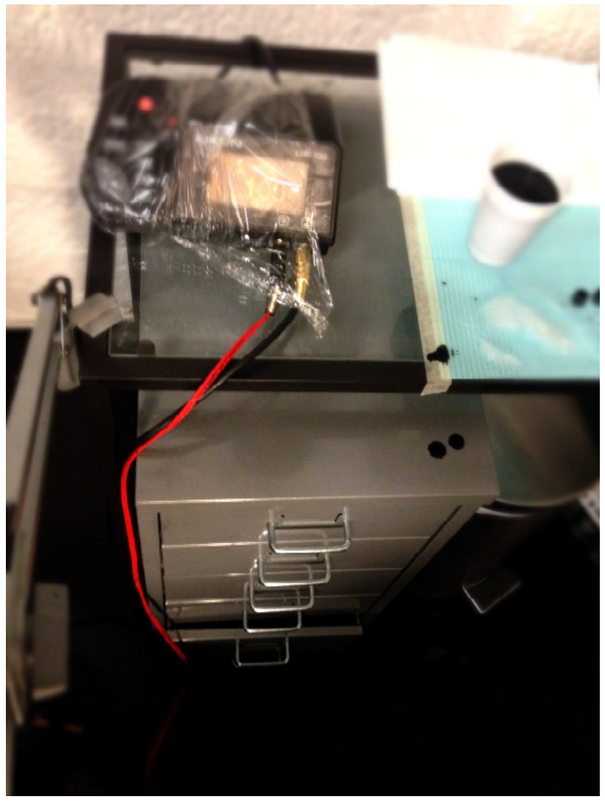
AN ATTEMPT TO CREATE A BATTERY POWERED TATTOO MACHINE

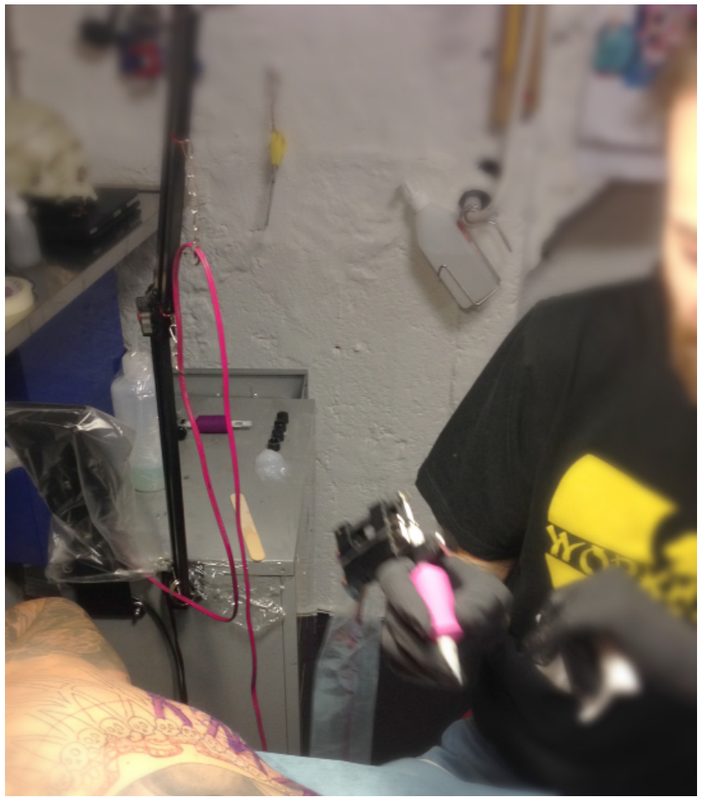


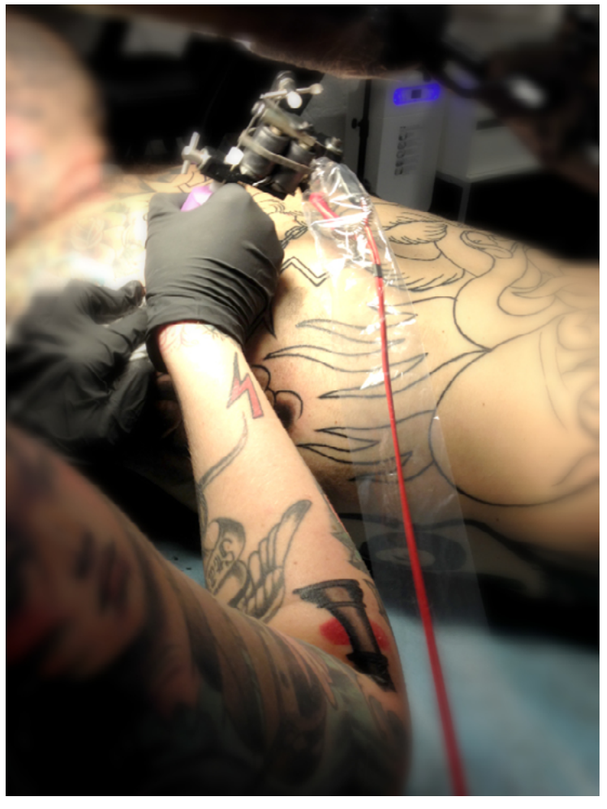
Background

Electric tattoo machines are the norm of tattooing in modern society. Electric tattooing, as opposed to older hand poke methods, is a comparatively quick and efficient way of having the needles push the pigments into the skin to create fantastic art, or ruin your beutiful body - depending on who's opinion you rely on.

There are many issues surrounding electric tattooing that carry potential for improving. In this project I have been focusing on the cord and foot pedal today required to tattoo. Not only a restricting and ergonomically opressing detail, but also an additional potential cause for cross contamination of blood bourne pathogens. Are cords for the machine really a necessity?







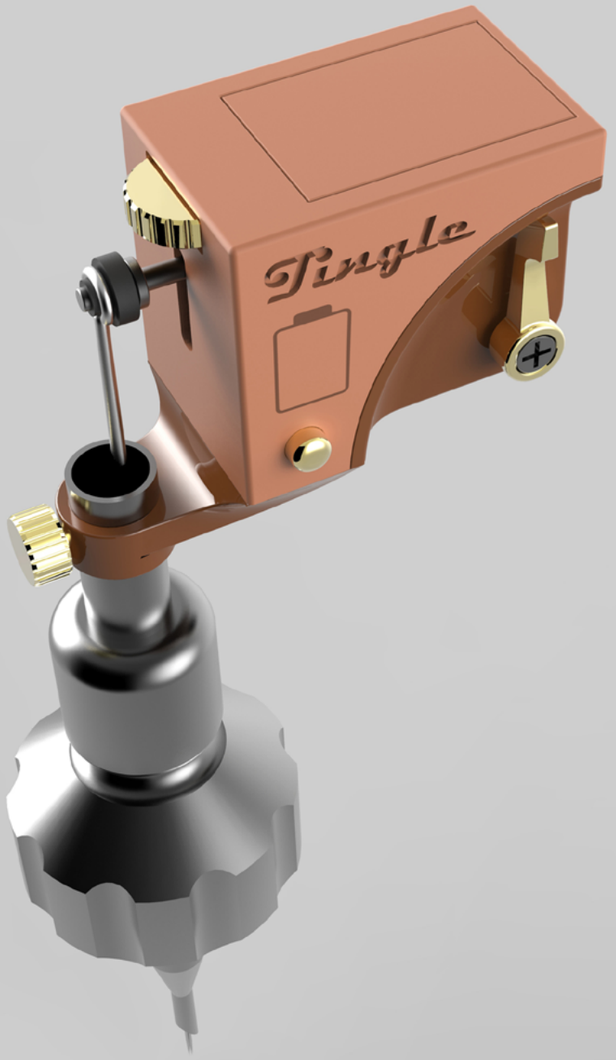
So, how do you achieve this?

Do you just add a random battery to an existing tattoo machine? If so, how do you obtain the necessary function of adjusting needle force and speed? What battery is suited to to maintain performance to the very end of itse charge, without having power slowly dropping?

How do you add componenets without adding weight, while optimizing centre of gravity, to ease the load on the wrist and hand while working?

Others have tried and failed, is this task even possible?

This is what I am investigating in this project, making use of lightweight 3-D printed machine bodies, electronics experts and a great deal of trial and error. To the question whether this task is acievable, I think that I will eventually be able to answer yes.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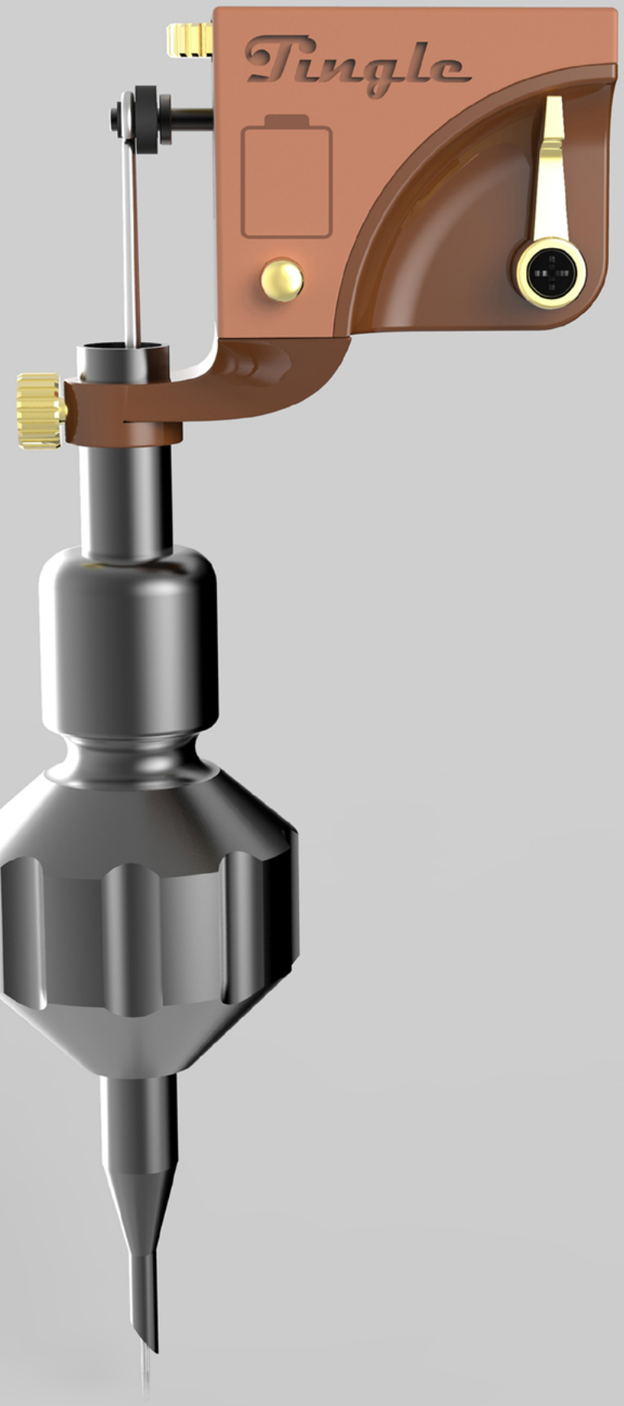
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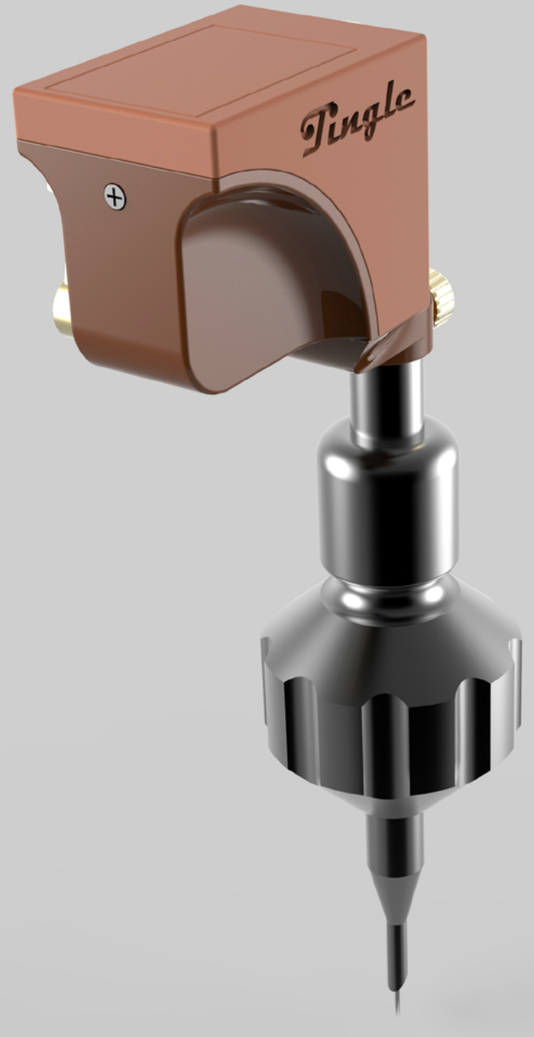
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Current vs. future concept

Traditional set-up: tattoo machine, foot pedal, clip cord, power supply

Cordless set-up: cordless tattoo machine, battery charger