**Raspberry Pi’s**

A Raspberry Pi is a small computer, about the size of a credit card which is low cost. It can plug into a computer monitor or TV and is capable of doing everything a desktop can do [1]. It was created in 2012 by a UK charity who aimed to educate people in computing. The Raspberry Pi runs Linux but provides users with a set of general-purpose input/output (GPIO) pins. These allow users to control electronic components for physical computing [2].There have been four generations of Raspberry Pi’s released, each generation usually has 2 models, A and B, with model A being a less powerful cheaper variant [2].  
Right now the Raspberry Pi has a wide range of functions and uses. From replacing your desktop computer with a Raspberry Pi to building a security system, or even use it to create a media centre to watch your favourite shows and movies, you can even use it productively and for its initial purpose, which is to learn how to code [3].The sky is the limit for the robust compact Raspberry Pi. The latest generation of the Raspberry Pi released in June of 2019 the Raspberry Pi Model B, has the capability to deliver PC-like performance, it now can output two 4k monitor displays. It boasts 4GB of Ram for the first time. This all is included for a very low price (USD$35 – USD$55) [4].  
The biggest impact that Raspberry Pi’s have, is the ability to help teach people to code. This was its initial purpose, due to the wide variety of uses it has. Over the past few years, Raspberry Pi’s have been popular when it comes to crypto currencies, as they are able to be used to ‘mine’ bitcoins, by doing intense calculations [5]One thing which will change in terms of Raspberry Pi’s is the improvement of its technology. Raspberry Pi’s have four different generations now [4], each of them a major improvement on the last. I think it would be safe to say that the Raspberry Pi will have few things it isn’t capable of doing.The people who will be most affected by the ever developing Raspberry Pi, are people in the technological world who are learning to code, or people who enjoy coding these robust compact computers to do a huge amount of things.At this stage, I don’t think that the Raspberry Pi is really capable of making jobs redundant or replacing any jobs. You could argue that it could affect some people’s jobs, as more people are able to develop the Raspberry Pi into many different technologies that it could stop certain people from using certain services. For example, you can create your own media server using a Raspberry Pi, which could stop some people from using streaming services such as Netflix or StanAt the moment, Raspberry Pi’s aren’t really affecting my daily life. I don’t use them to help me do anything. I have been very interested in trying to get my hands on one, to try give myself some practise in coding and to spend some time trying to get it to stop Ads on my internet network at home.It won’t have a big enough impact to make anything different for me in the immediate future. Potentially down the track, someone may have discovered a use for Raspberry Pi’s that could change the way the world does a particular thing, but at this stage nothing is different.This would only affect family and friends if it affected me as well. Unless I manage to get my hands on one and set up an ad blocker, then I guess it will affect members of my family as well.

**Arduinos**

Arduino is a simple computer; it can run a single program at a time repetitively. As a microcontroller motherboard, it is very simple to use [5]. It was initially used as an introduction to programming as an easy tool for fast prototyping, for people who didn’t have much of a background in programming. As it is an open-source project, it has endless possibilities [6].The main use of an Arduinos is for it to perform simple repetitive tasks. Such as, opening and closing a garage door or pushing notifications to twitter [5]. Some other uses include, it is apart of 3D printing, creating a LED light beam that makes a sound when you cover one of the lights, and can be used to send certain twitter posts at the push of a button [7]The future is very bright for Arduinos, as it has turned the once expensive world of microprocessors and become a widely available easy to use low costing technology. But it is the users that make everything possible. The Arduinos allows for the wide imagination of its users to create projects using it.In terms of developments, in an interview the co-founder of Arduinos [8], stated that they planned to develop and release their own cloud service. The Arduino IoT Cloud was released in 2019 and is a huge development for Arduino. It enables users to program the Arduino boards via the cloud, by guiding them through step by step, into creating their new project. First by configuring it, and then by coding it [9].   
Things that will change is that it makes it a lot easier for people to use Arduinos. It will most affect those who use the boards no matter their level of expertise. It can help both beginners set up a project, as well as helping out the absolute professionals manage all their boards.In the future it could potentially make some jobs redundant, but this is purely based on the ability of someone creating a project out of the Arduino board.Again, like raspberry pi’s I currently do not use them, so at the moment they do not affect my life, however in the future it could have an impact on my life, depending on the creativity of some Arduino users.

**MaKey MaKeys**

A MaKey MaKey is project created to inspire people’s creativity and combining it with technology. It is a two-sided circuit board that you connect to your computer and then to other objects, then using the objects to control keys on your computer. It uses alligator clips to connect the board to any inanimate object, this could be some Play-Doh, or even a couple of bananas. The alligator clips on the board connect to certain keys, or mouse clicks, so you can pair the objects so you computer thinks they are key strokes [10]The imagination of people is extraordinary. The limit of what can be done with these is restricted due to the fact it can only be used to correspond to 18 different inputs, but people’s creativity is what drives the development. Videos of people creating a piano out of their staircase, and people creating a controller for a videogame out of drawings on a piece of paper [10]Although the MaKey MaKey seems simple, and even as a way to get kids involved and interacting with technology. However, people have managed to get creative with it by pairing it with other technologies. Mixing the Raspberry Pi with the MaKey MaKey has seen creators be able to make keyboard / music players [11]Developments in this technology is purely based on user creativity and imagination, like a lot of these devices it allows the user to create their projects and help them learn and understand technology. It will mostly affect those who use them, and in terms of replacing jobs it is again up to the user capability, but for now I don’t think the MaKey MaKey will be taking anyone’s job, except for maybe piano makers...

The MaKey MaKey, now doesn’t have any affect on me or anyone around me. Potentially to create a keyboard or music player would be interesting, and fun to create, but maybe in the future when the technology is a little cleaner and easier to manage. But other than that, if someone can create a way to incorporate it into daily life, the MaKey MaKey won’t be affecting myself or my family and friends.

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