# Innovation Ideas

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| **Idea** | **Key Parts Needed** | **Advantage of Use** | **How the idea will work?** | **Subsystem to be Implemented In** |
| Controlling the Tri-Track system claw by using a device to mirror the action conducted by the user | 2 x Inertial Measurement Unit device (IMU) | This would allow a more accurate control of the tri-track claw. | The IMU’s will be mounted onto something that will be worn on the hand, so that the actions conducted by the hand can be directly reflected by the tri track claw. This will be done by the IMUs detecting the change in a specific axis and moving the claw accordingly. | Tri-Track Subsystem |
| Voice Commands to Execute System Features | 1 x Raspberry Pi  1 x Microphone  or  1 x Amazon Eco | In the case of having a high quantity of features to control on a system, this allows the user to activate specific features by verbally calling on them. | This will be executed by the user activating the voice recognition by a phrase or word that the subsystem will identify to know that it should start listening for the instruction (i.e. The name of this subsystem – such as ‘Alexa’ for the Amazon Eco). After it is activated and listening, the user will verbally dictate the instruction and the subsystem will process it and carry out the action accordingly. | Dani Subsystem |