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| Component | Model | Technical specification | Function |
| Components of the modified electronic circuit | | | |
| Motor | RS PRO 951D  (*RS PRO 951D | RS Components*, 2021) | Supply voltage – 3V  DC Motor Type – brushed geared  Power rating – 0.58 W  Current rating – 320mA  Output speed – 45RPM  Torque – 352GCM  Maximum output torque – 9Ncm  Gearhead type – spur  Dimensions – 29.25x10x12mm  Shaft diameter – 3mm | Turns clockwise or anticlockwise in order to wind or unwind the string around the haptic sleeve, tightening or untightening the sleeve respectively |
| Force sensing resistor x2 | Interlink Electronics FSR400  (*Interlink Electronics FSR400 | RobotShop*, 2021) | Actuation force – 0.2 N/min  Force sensitivity range – 0.2-20N  Force resolution – continuous (analog)  Force repeatability single part – 2%  Force repeatability part to part – 6%  Non-actuated resistance – >10MΩ  Length – 38mm  Diameter of active area – 5.08mm  Nominal thickness – 0.3mm  Switch travel – 0.05mm | Detects force applied by the prosthetic hand fingertips and communicates it to the microcontroller |
| Micro-controller board | Arduino Uno Rev3  (*Arduino Uno Rev3 | Arduino Official Store*, 2021) | Microcontroller – Atmega328P  Operating voltage – 5V  Input voltage – 7-12V  Digital I/O pins count – 14  PWM Digital I/O pins count – 6  Analog input pins count – 6  DC current per I/O pin – 20mA  DC current for 3.3 pin – 50mA  Flash memory – 32KB  SRAM – 2KB  EEPROM – 1KB  Clock speed – 16MHz  LED\_BUILTIN – 13  Dimensions – 68.6x53.4mm | Connects to all of the other elements of the electronic circuit and executes the Arduino IDE code, controlling the function of the whole circuit; connects to a computer and sends it all collected data. |
| Motor Driver | L298N 2A  (*L298N Motor Driver | Components 101*, 2021) | Driver chip – double H bridge L298N  Motor supply voltage – 46V  Motor supply current – 2A  Logic voltage – 5V  Driver voltage – 5-35V  Driver current – 2A  Logical current – 0-36 mA  Maximum power – 25W | Controls the direction and speed of motor rotations via PWM; regulates voltage and current supply from the DC bench power supply to the circuit |
| Solderless breadboard x4 | ELEGOO MB-102  (*ELEGOO MB-102 Breadboard | Amazon.co.uk*, 2021) | Board material – ABS plastic  Tie points – 400 in total, 300 tie-point IC-circuit area, 4x25 tie-point power rails  Socket pitch – 2.54 mm / 0.1”  Dimensions – 84x55x8mm | Increases the number of terminals through which electric connection can be established between different components of the circuit |
| Resistor x7 | Pi Hut Ultimate Resistor Kit  (*The Pi Hut Ultimate Resistor Kit | The Pi Hut*, 2021) | 4.7kΩ resistor x3  10kΩ resistor x4 | Implements electrical resistance to reduce the current flow to certain elements of the electric circuit |
| Tactile Button x3 | YOUMILE Miniature Momentary Push Button  (*Youmile Miniature Momentary Push Button | Amazon.co.uk*, 2021) | Switch type – momentary  Terminal – SPST  Dimensions – 6x6x5mm  Withstand voltage – AC250V  Rated load – DC 12V, 50mA  Contact resistance – 0.03Ω  Insulation resistance – 100MΩ | Triggers execution of a pre-specified portion of Arduino IDE code installed on the microcontroller |
| Jump wire (multiple) | Elegoo Dupont Wires  (*Elegoo Dupont Wires | Amazon.co.uk*, 2021) | Male-to-male wires (multiple)  Female-to-male wires (multiple)  Dimensions – 0.1x0.1x21.01cm | Establish electric connection between different components of the circuit |
| LED x2 | YOUMILE Round LED Assorted Kit  (*Youmile Round LED Assorted Kit | Amazon.co.uk*, 2021) | Voltage – 3V  Current – 20mA  Height – 5mm | Emit light signals representing successful execution of a pre-specified portion of Arduino IDE code installed on the microcontroller |
| Removed components of the original electronic circuit | | | |
| Radio-frequency board x2 | NRF24L01  (*NRF24L01 RF Board | The Pi Hut*, 2021) | Transceiver – NRF24L01  Transmission – wireless 2.4G  Antenna – 2.4GHz  Communication distance – 55m  Resistor/capacitator – SMD 0402 | Allowed wireless communication (data reception and transmission) between the haptic sleeve and a nearby computer via RF |
| Current Sensor | Adafruit INA219  (*Adafruit INA219 DC Current Sensor | The Pi Hut*, 2021) | Current sense resistor – 0.1Ω 1% 2W  Target voltage – 26V  Current measurement – 3.2A  Resolution – 0.8mA  PCB dimensions – 2.3x2.0cm | Measured the high side voltage and DC current draw over I2C with 1% precision |
| Motor driver | STMicro-electronics L293D  (*STMicroelectronics L293D | RS Components*, 2021) | Motor type – brushed DC  Output configuration – dual full bridge  IGBT collector current – 0.6A  Collector emitter voltage – 36V  Pin count – 16  Dimensions – 20x7.1x5.1mm | Controlled the direction and speed of motor rotations via PWM |