Full list of components that are required to complete a one hand build are listed below:

1 x NVIDIA Jetson Nano 4GB development kit
The NVIDIA Jetson Nano Developer Kit delivers the compute performance to run modern AI workloads at unprecedented size, power, and cost.

1x fully 3D printed hand
Either 3rd party printed or printed by yourself.

2mm ground steel pins
Five different lengths: 58 pins in total

<table>
<thead>
<tr>
<th>Pin Length/mm</th>
<th>Total needed</th>
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<tbody>
<tr>
<td>10</td>
<td>11</td>
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<tr>
<td>16-18</td>
<td>16</td>
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<tr>
<td>20</td>
<td>10</td>
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<td>24</td>
<td>21</td>
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Tendons, guides and elastics
Tendons close the fingers, elastic bands open the fingers and guides make everything run smoother for longer. Ideally use the items recommended below but substitute as needed. For example by using any braided kite or fishing line of roughly the right diameter you already have to hand.

Sufix 832 SuperBraid
5m - White 80lbs breaking strain

PTFE tube
30cm x PTFE tubing AWG 18s 2mm OD, 1mm ID

1 x fully 3D printed hand
All the parts printed online or by yourself or get started as soon as you have enough to make a finger!

Elastic bands
Around 15mm diameter when unstretched and no more than 3mm wide in latex or polyurethane - sold as hair bands for humans and horses!

SCS0009 Micro Servo
10 X SCS0009 - Fingers and thumb

SCS15 SERVO
1 x SCS15 SERVO

FE-URT-1 BOARD
USB board for reprogramming the servos (Feetech) Servos

Micro USB cable
1x Micro USB cable

All servos used have been sourced from a company called feetech.
**Cameras**
One camera is located within the palm of the robotic hand.

**Raspberry Pi V2 Camera**
1x Raspberry Pi V2 Camera

**Camera cable**
1 x 30cm Raspberry Pi V2 camera cable - the standard cable supplied with the camera is not long enough

**Power Supplies**

**Two power suppliers are needed to operate the hand correctly. One to power the NVIDIA jetson Nano development kit and other to power the servos**

**5V 4A Universal Power Supply**
1x 5V 4A Universal Power Supply for NVIDIA Jetson Nano development kit.

**2.5mm Barrel jack**
1x Barrel jack with flying leads for URT board, connects to UPS above

**6v 6A Universal Power Supply**
1 x 6v 3A minimum Universal Power Supply for the servos - or use the same as for the nano with slightly slower servo movements

**Jumper**
1 x Jumper - To enable power jack on development kit.

Full list of components that are required to complete a one hand build are listed below:

www.robotnanohand.com