BILL OF MATERIALS

Part No. Legend				
10-XXXX	Modules			
20-XXXX				
	Electronics			
40-XXXX	3D Print			
50-XXXX	Waterproofing			
	Fasteners			
70-XXXX	Others			

Project Name: Open-Source Underwater ROV

Contributors:

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Richard Lauwrence

Supervised by:

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HKUST Robotics Institute
The Hong Kong University of Science and Technology

Part No. 1				_		1	
20 0.002	Part No.	-	2	3	Component Name		Description
30 00217		·	-			_	
1.0							
30-0027				•		_	
1,000,007							
25-0007	40-0027			•	Electronics Rack	1	
25-0099	50-0047		•		Core Endcap (Male)	2	
1				•		1	
20-0012				•		_	
30-0013							
19-0950						_	
1							
150-0952							
50-0053					O-Ring (OD68 x 3.1mm)		Cost all and
10-0002				•	Waterproof Cable Connector (8-pin, male)		
10-0006		-	_				Cut short
10-0028 Spur Geer (IDZ0) 1		Ť					
10-0006							
30-0018 Shaft (164 mm) 1							
Servo and Housing 1 1 1 1 1 1 1 1 1							
1							
40-0032				•		1	
40-0031				•		1	
10-0032				•		1	
60-0063	40-0031			•		1	
60-0065	40-0032			•		1	
S0-0048 Motor Endcap (Female) 1 20-0009							
20-0008 • Flange (Smm) 1 20-0009 • Acrylic Spacer (OD74 x 3mm) 2 20-0012 • Acrylic Spacer (OD66 x 18mm) 1 1 1 1 1 1 1 1 1				•			
20-0009			•				
20-0012							
20-0014							
S0-0050							
Sp-0053							
S0-0049							Cut shout
Page			-	•			Cut short
20-0019							
20-0011							
20-0012							
20-0013				•			
S0-0050				•		_	
40-0034	50-0050			•		1	
S0-0054 • Waterproof Cable Connector (3-pin, female) 2 30-0019 • Motor Arm 2 2 30-0024 • A2212-1000KV Brushless DC Motor 1 30-0025 • XRotor Micro 30A ESC 1 1 40-0035 • Motor Arm Housing (Top) 1 1 40-0036 • Motor Arm Housing (Bottom) 1 40-0036 • Motor Arm Housing (Bottom) 1 40-0037 • Motor Arm Lock 2 50-0055 • Waterproof Cable Connector (3-pin, male) 1 50-0055 • Waterproof Cable Connector (3-pin, male) 1 50-0055 • Waterproof Cable Connector (3-pin, male) 1 40-0037 • ISO 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 40-0038 • U-Joint Housing Top 1 40-0039 • U-Joint Housing Bottom 1 40-0039 • U-Joint Housing Bottom 1 40-0039 • U-Joint Housing Lock 2 50-0056 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0056 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0058 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0058 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0058 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0058 • ISO 4762 M3 x 8 6 Self-Tapping; substitutable with normal thread 50-0058 • ISO 4762 M3 x 8 5 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 5 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 50-0058 • Iso 4762 M3 x 8 4 Self-Tapping	40-0033		•		U-Joint Cross	2	
30-0019			•				
30-0024			•				
30-0025			•			_	
40-0035							
40-0036							
40-0037							
Self-Tapping Substitutable with normal thread Self-Tapping Self-Tapping Substitutable with normal thread Self-Tapping Self-Tapping Substitutable with normal thread Self-Tapping							
GO-0057							
G0-0059							Colf Tanning, substitutable with narmal thread
40-0038							
40-0039							Jen Tapping, substitutuble with normal tilleau
40-0040							
G0-0056						_	
G0-0057			_			_	
G0-0058			_			6	Self-Tapping; substitutable with normal thread
Solf-Tapping; substitutable with normal thread 10-0003 Timing Belt Module 2			•			8	Self-Tapping; substitutable with normal thread
40-0041	60-0062		•			8	Self-Tapping; substitutable with normal thread
40-0042 • Timing Belt Cover B 2	10-0003	•				2	
Timing Belt GT2, 6mm x 550mm 1							
40-0043							
40-0044							
60-0056 • ISO 4762 M3 x 6 14 Self-Tapping; substitutable with normal thread 60-0057 • ISO 4762 M3 x 8 4 Self-Tapping; substitutable with normal thread 60-0061 • ISO 4762 M3 x 30 1 60-0064 • ISO 4032 M3 1 10-0004 • Peripheral Module 2 30-0020 • Waterproofed Camera 1 30-0026 • Sony IMX322 CMOS USB Camera 1 40-0045 • Camera Housing 1 20-0015 • Camera Acrylic Cover 1 40-0046 • Peripheral Module Housing 1 20-0016 • Acrylic Spacer for Peripheral Module 7			_				
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60-0061			_				
60-0064			_				Sell-Lapping; substitutable with normal thread
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30-0026 Sony IMX322 CMOS USB Camera 1		Ť					
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20-0015 • Camera Acrylic Cover 1 40-0046 • Peripheral Module Housing 1 20-0016 • Acrylic Spacer for Peripheral Module 7							
40-0046 • Peripheral Module Housing 1 20-0016 • Acrylic Spacer for Peripheral Module 7						_	
20-0016 • Acrylic Spacer for Peripheral Module 7			•				
			_		Acrylic Spacer for Peripheral Module		
			•				