		ESP32 I	Based Gen
Component			
Individual Componen			
Item		Reference(s)	Value
OLED 128 x 64		Brd1	SSD1306
Battery Holder		BT1	BAT 20MM PTH
		C1	1 UF
		C2	10UF
		C3	0.1 UF
		C4	0.1 UF
		C5	0.1 UF
Capacitors		C6	470 pF
		C7	2.2 uF
		C8	10UF
		C9	0.1 UF
		C10	10UF
		C11	0.1 UF
		D1	1N4001
Diodes		D2	B_LED
Diodes		D3	1N4001
		D4	PWR_LED
		J1	PWR
		J2	Switch_Conn
		J3	Soil Moisture
		J4	LED CONN
		J5	Pump Conn
Connectors	(JST	J6	BH1750
& Pin Header)		J7	HTUI2D
		J8	Prog_Header
		J9	CONN 10
		J10	DHT22
		J11	DS18B20
			_ 515525
Buzzer		LS1	BUZ-PTH
ESP32 Wroom	l	MOD1	ESP32-WROOM
		Q1	MMBT2222A2
<b>-</b>		Q2	MMBT2222A2
Transistors		Q3	MMBT2222A2
		Q4	MMBT2222A2
		R1	1k
		R2	10k
		R3	10k
		R4	10k
		R5	470e
		R6	470e
		R7	1k
		R8	10k
		R9	10k
		R10	10k
		LITO	TOK

Plant\_Water\_System

		R11	10k	
Decistors		R12	10k	
Resistors		R13	10k	
		R14	470e	
		R15	10k	
		R16		805
		R17		805
		R18	10k	
		R19		805
		R20		805
		R21	10k	
		R22	10k	
		R23	470e	
		R24	470e	
		S1	ON/OFF	
Switches		S3	Boot	
		S4	EN	
ICs Reg, RTC)	(Voltage	U1	MIC5219-3v3	
		U2	DS3231M	
		U3	AMS1117-3.3	

eric IoT_Deployement board	
Footprint	Field4
SSD1306:128x64OLED	
Batteries:BATTCOM 20MM PTH	BATT-09031
805	CAP-08064
Capacitors:EIA3216	CAP-00811
805	CAP-08064
Capacitors:EIA3216	CAP-08004 CAP-00811
805	CAP-00811 CAP-08064
Capacitors:EIA3216	CAP-00811
805 Biada CMD:D 0005 2012Matria	CAP-08064
Diode_SMD:D_0805_2012Metric	DIO 00011
LED:LED-1206	DIO-09911
Diode_SMD:D_0805_2012Metric	212 22211
LED:LED-1206	DIO-09911
Connectors:JST-2-PTH	CONN-09863
Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertical	CONN-13230
Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertical	CONN-13230
Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertical	CONN-13230
Connectors:JST-2-PTH	CONN-09863
Connector_JST:JST_EH_B4B-EH-A_1x04_P2.50mm_Vertical	CONN-13251
Connector_JST:JST_EH_B4B-EH-A_1x04_P2.50mm_Vertical	CONN-13251
Connector_PinHeader_2.54mm:PinHeader_1x06_P2.54mm_Vertic	al
Connector_PinHeader_1.27mm:PinHeader_1x10_P1.27mm_Vertic	al XXX-00000
Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertical	CONN-13230
Connector_JST:JST_EH_B3B-EH-A_1x03_P2.50mm_Vertical	CONN-13230
Electromechanical:BUZZER-12MM	COMP-08253
RF_Module:ESP32-WROOM-32	
Silicon-Standard:SOT23-3	TRANS-08049
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## Plant\_Water\_System

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Switches:SWITCH_SPDT_PTH_11.6X4.0MM	SWCH-08261
Button_Switch_SMD:SW_SPST_FSMSM	SWCH-09213
Button_Switch_SMD:SW_SPST_FSMSM	SWCH-09213
Package_TO_SOT_SMD:SOT-23-5	
Package_SO:SOIC-16W_7.5x10.3mm_P1.27mm	
Package_TO_SOT_SMD:SOT-223-3_TabPin2	