Quantity	Reference	Value	Package	Part Number
	1	ARCU F		
3	R1, R4, R5	10K, 5%, 1/8W	0805	RMCF0805JT10K0
2	R2, R3	22, 5%, 1/8W	0805	RMCF0805JT22R0
2	C1, C2	22pF, 1%, 10V	0805	CL21C220FBANNNC
1	C3	1uF, 10%, 10V	0805	CL21B105KAFNNNE
3	C4, C7, C8	.1uF, 10%, 10V	0805	CL21B104KBCNNNC
1	C5	10uF, 10%, 10V	0805	CL21A106KPFNNNE
1	C6	22uF, 10%, 10V	0805	CL21A226MQCLQNC
1	D1	Schottky Diode, 1A	SOD-323	BAT760-7
1	D2	Blue LED,	0805	LTST-C171TBKT
1	F1	Fuse, Poly, 500mA Hold, 1000mA Trip	1210	0ZCH0050FF2G
1	P1	Female 1x3 Locking Polarized Conn.	CUSTOM	5-103635-2
1		Male Mating Conn. For P1	NONE	104257-2
3		Pins for P1 Conn.	NONE	104479-8
1	P2	MICRO SD, Push Push	CUSTOM	DM3CS-SF
1	U1	ATmega32U4, RC Clock	TQFP-44 10x10mm 0.8mm Pitch	ATMEGA32U4RC-AUR
 1	U2	AZ1117, 3.3V Fixed Regulator	SOT-223	AZ1117CH-3.3TRG1
 1	U3	MPU-9250, 9 Axis IMU, I2C	QFN-40 3mmX3mm Pitch .4mm	MPU-9250
1	U4	ESP-01v090, Serial Wifi Module	CUSTOM	WRL-13678
1	X1	SMD USB OTG, Female Mini USB	CUSTOM	UX60-MB-5ST
1	Y1	Crystal, 8MHz	CUSTOM	ABM3-8.000MHZ-D2Y-T
		University of Toledo		
		Active Roll Control Unit (ARCU)	Rev. A 11/3/2016	

Quantity	Reference	Value	Package	Part Number
		ARCU	ICSB	
	1	ARCU		1
1	P1	2x5 IDC Conn.	2X5 ICSP Conn., .1" Pitch PTH	3020-10-0100-00
			, , , , , , , , , , , , , , , , , , , ,	
	•	Battery and S	ervo Wiring	•
1	NONE	XT60 Conn. Male and Female Pair	NONE	PRT-10474
1	NONE	9V Battery Snap	NONE	Keystone 84-4
		Backup Break	cout Version	
1	P1	1X3. 1" Pitch Male Header PTH	NONE	PRT-00553
<u>'</u> 1	U1	Sparkfun Pro Micro 3.3V 8MHz	NONE	DEV-12587
<u>.</u> 1	U2	Sparkfun MPU9250	NONE	SEN-13762
<u> </u>	U3	Sparkfun Transflash	NONE	BOB-00544
<u>·</u> 1	NONE	XT60 Male and Female Pair	NONE	PRT-10474
1	NONE	9V Battery Snap	NONE	PRT-00091
		University of Tole	lo Pockotny Club	
	1	Active Roll Control Unit (ARCU)	Rev. A 11/3/2016	
		Active Roll Control Unit (ARCU)	Rev. A 11/3/2010	