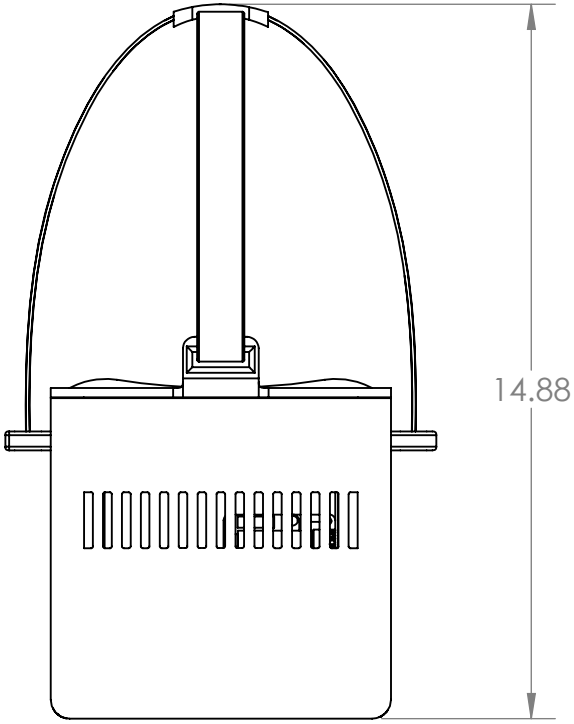
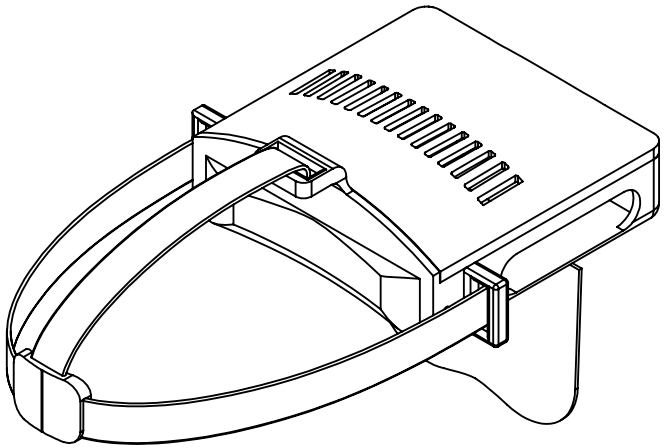
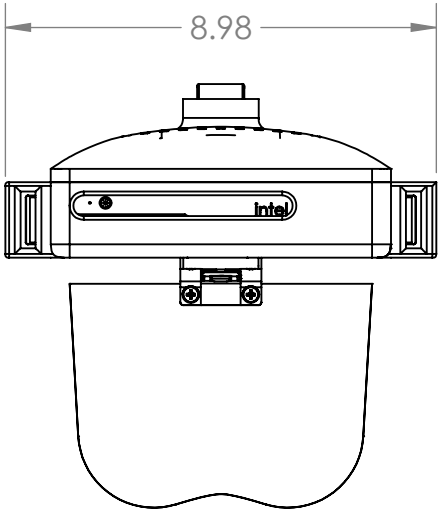
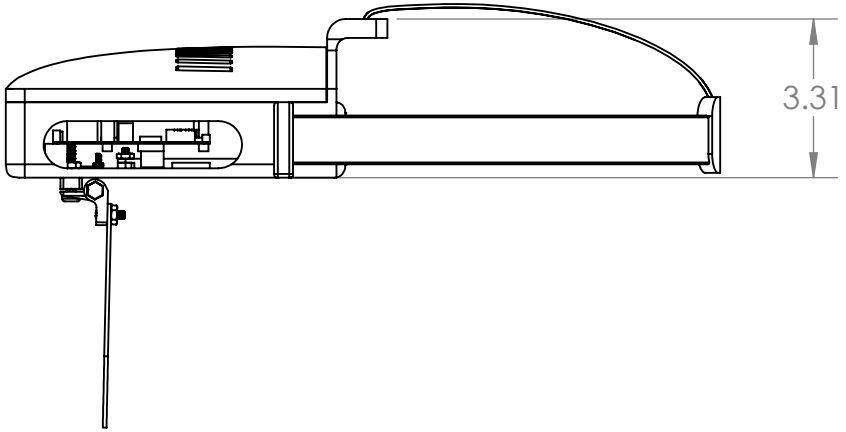


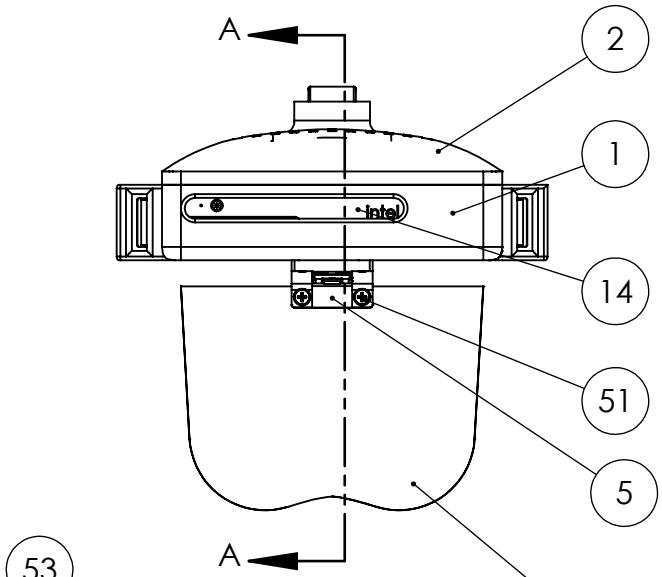


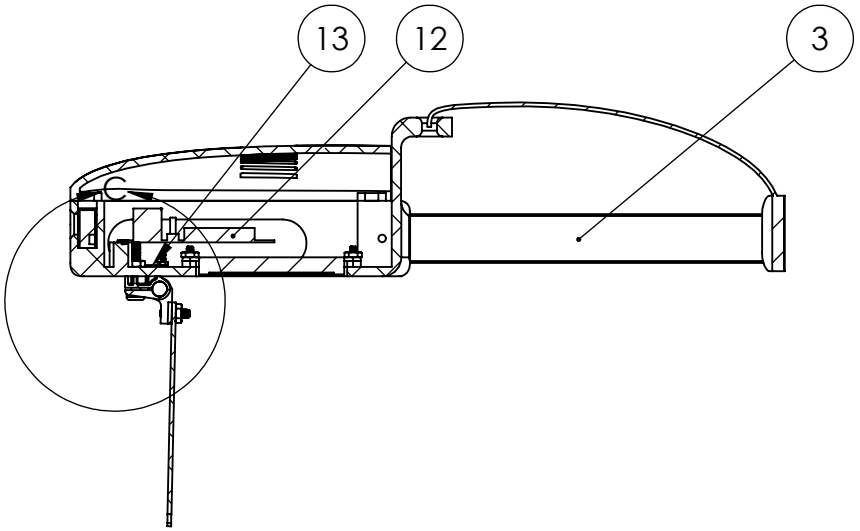
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY



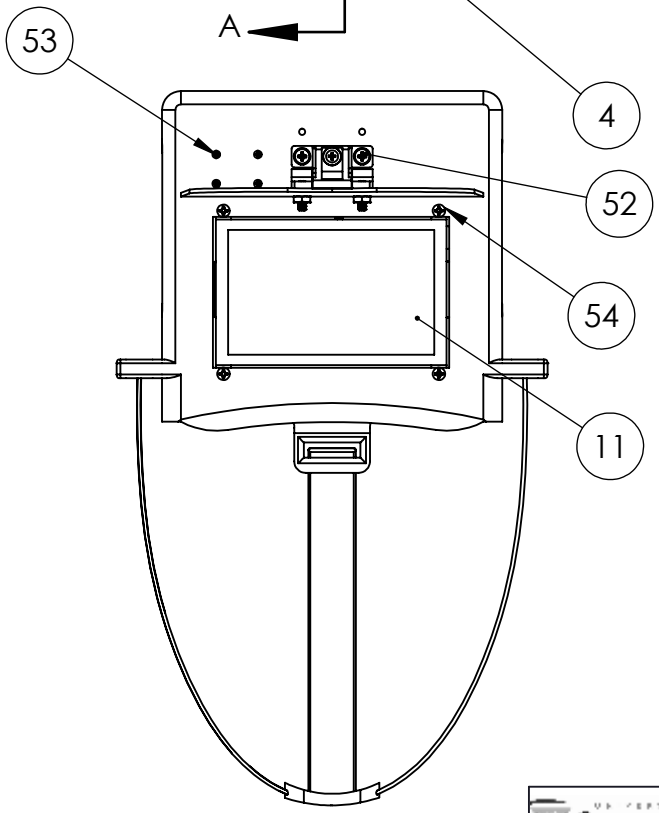


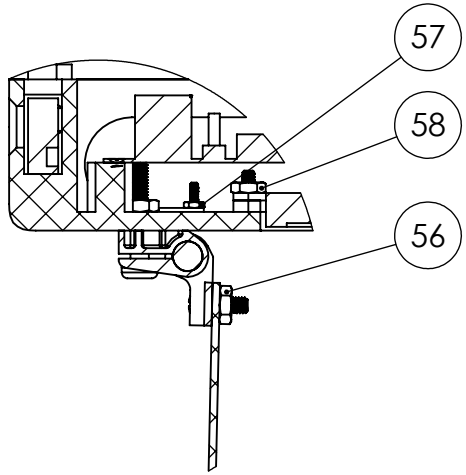
Concordia UNIVERSITY	MATERIAL **VARIES**		SURFACE ROUGHNESS	TITLE **ASSEMBLY**			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	FINISH		TOLERANCES X ± .1 .X ± .05 .XX ± .005 .XXX ± .002 ANGLE ± .5°				
	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**	
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:4**	SHEET **1 /12**	DWG NO. **11809301**	REV NO. **05**	





SECTION A-A
SCALE 1 : 4





DETAIL C
SCALE 1 : 2

Concordia UNIVERSITY	MATERIAL **VARIES**	SURFACE ROUGHNESS	TITLE **ASSEMBLY - SECTIONS**			
	FINISH	TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°				
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED	A SIZE	DATE **3/19/2018**	USED ON **MECH 490**	
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:4**	SHEET **2 /12**	DWG NO. **11809302**	REV NO. **05**

ITEM NO.	DESCRIPTION	PART NUMBER	MNF/OEM/SPL	QTY.
1	HEADSET	11809001	EXTERNAL - 3D HUBS	1
2	TOP COVER	11809002	EXTERNAL - 3D HUBS	1
3	HEAD STRAP	11809005	STUDENT - AMIR SHAWWA	1
4	HEADS-UP DISPLAY	11809006	STUDENT - KOSTAS ZOITAKIS	1
5	ADJUSTABLE-FRICTION HINGE	1791A440	MCMASTER	1
11	SCREEN	11809011	AMAZON	1
12	ODROID XU4	0007A	AMERIDROID.COM	1
13	ADAFRUIT BNO055 MOTION SENSOR	ADA2472	ADAFRUIT	1
14	INTEL REALSENSE CAMERA R200	MM#939143	INTEL REALSENSE	1
51	PAN HEAD PHILLIPS [#8-32 x 1/2" LG]	90272A194	MCMASTER	2
52	PAN HEAD PHILLIPS [#8-32 x 7/8" LG]	90272A198	MCMASTER	2
53	FLAT HEAD PHILLIPS [#2-56 x 1/2" LG]	90273A070	MCMASTER	4
54	FLAT HEAD PHILLIPS [#6-32 x 5/8" LG]	90273A150	MCMASTER	4
55	FLAT HEAD PHILLIPS [#4-48 x 3/8" LG]	91771A742	MCMASTER	2
56	HEX NUT [#8-32]	90480A009	MCMASTER	4
57	HEX NUT [#2-56]	90480A003	MCMASTER	4
58	HEX NUT [#6-32]	90480A007	MCMASTER	4

MATERIAL

FINISH

DESIGNER **A. SHAWWA**

DRAFTER **M. A. YADAO**

ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED

APPROVED **R. PATEL**

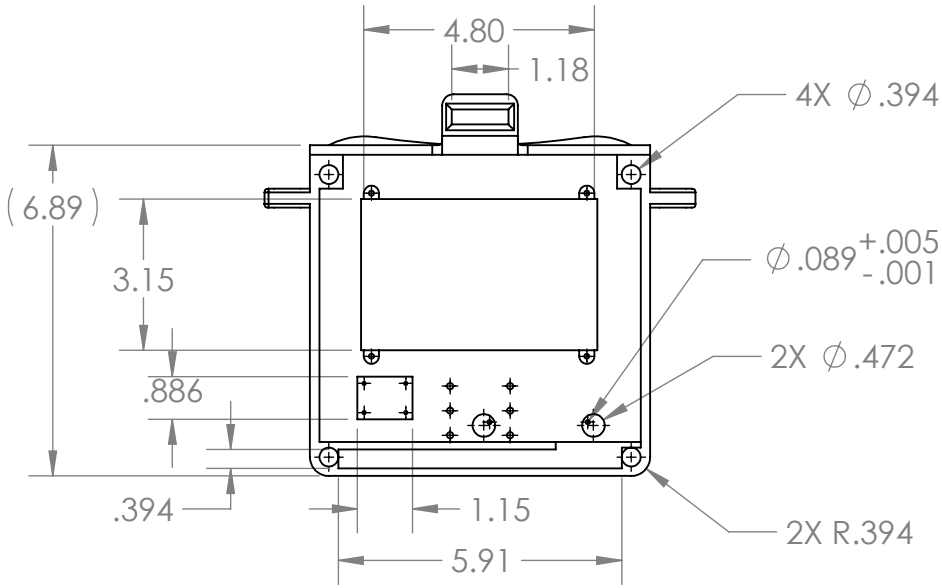
SURFACE ROUGHNESS

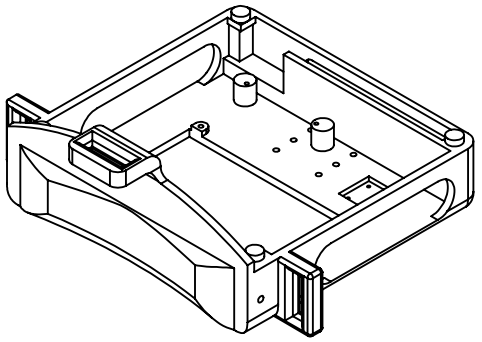
TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°

TITLE **BOM**

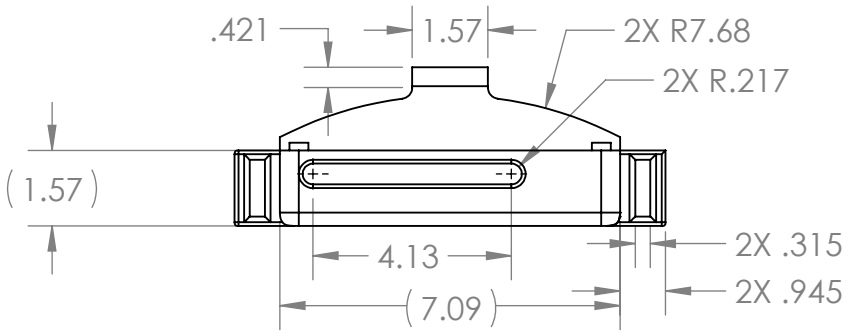
A SIZE | DATE **3/19/2018** | USED ON **MECH 490**

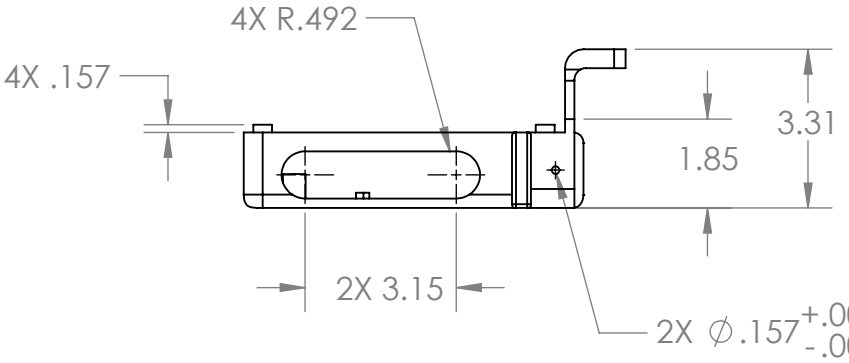
SCALE **1:8** | SHEET **3 /12** | DWG NO. **11809303** | REV NO. **05**

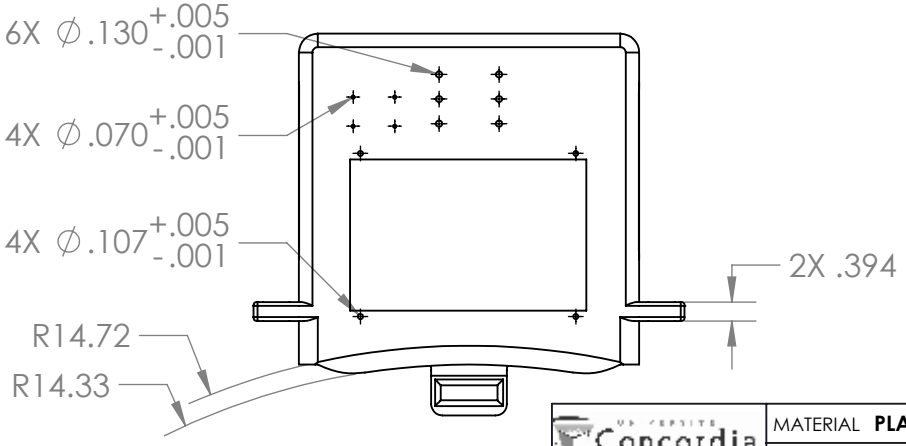




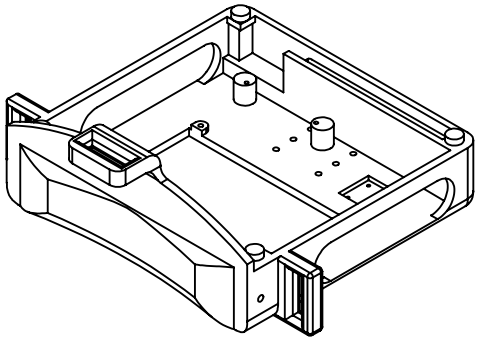
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY



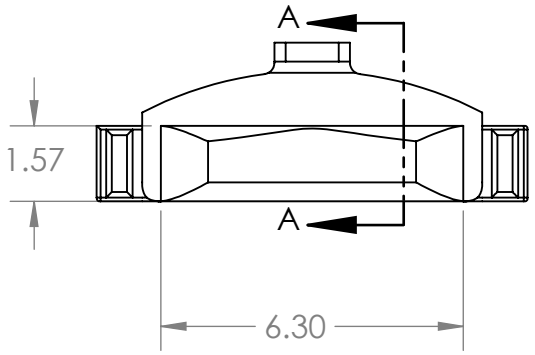


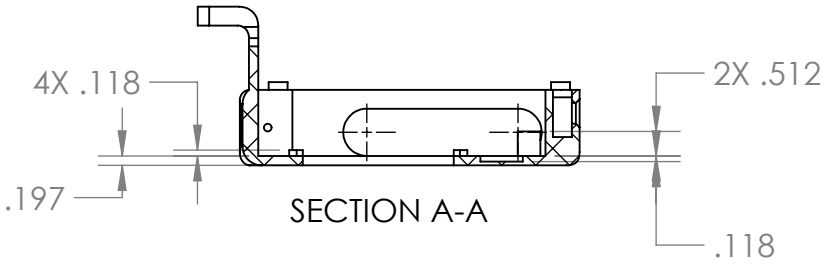


Concordia	MATERIAL **PLA**		SURFACE ROUGHNESS	TITLE **HEADSET**		
	FINISH **CLEAN**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:4**	SHEET **4 /12**	DWG NO. **11809001**	REV NO. **05**



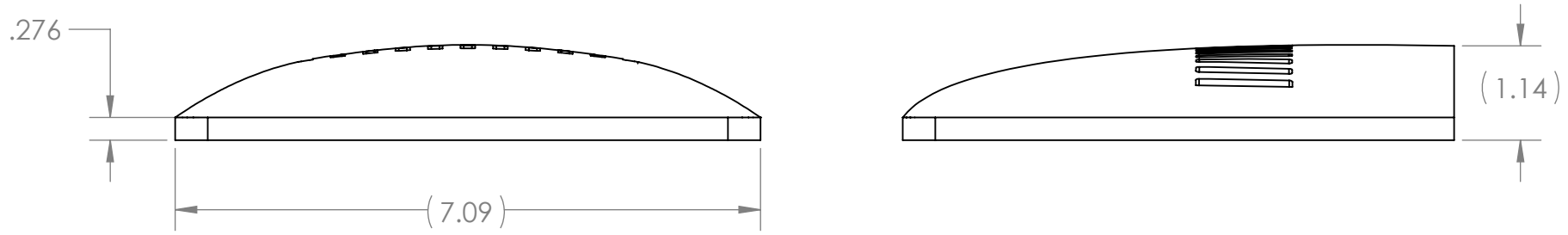
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

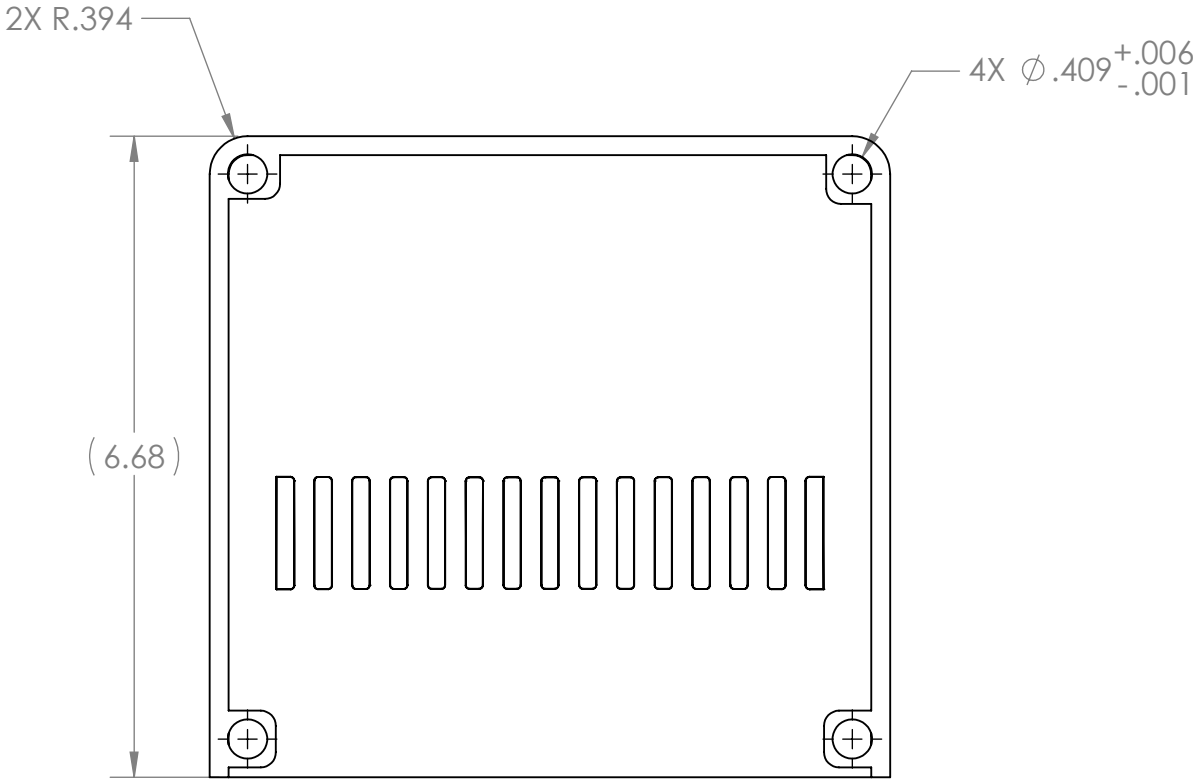


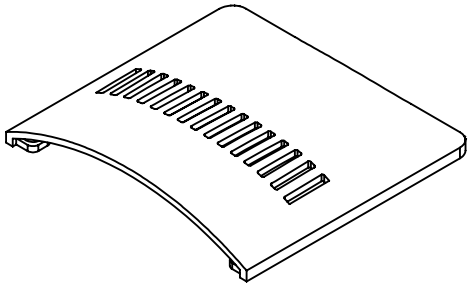


SECTION A-A

Concordia	MATERIAL **PLA**		SURFACE ROUGHNESS	TITLE **HEADSET**		
	FINISH **CLEAN**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:4**	SHEET **5 /12**	DWG NO. **11809001**	REV NO. **05**

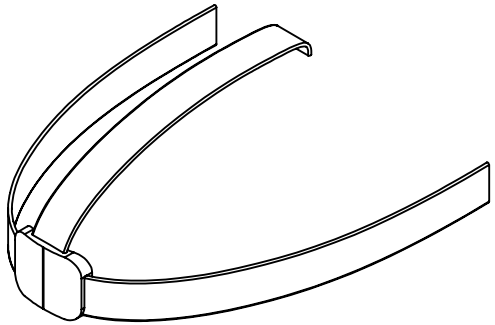




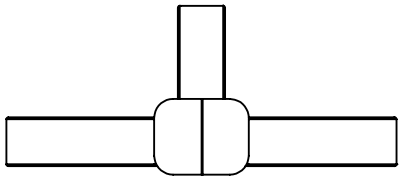


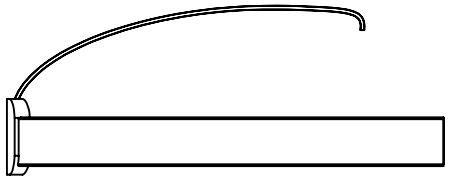
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

Concordia	MATERIAL **PLA**		SURFACE ROUGHNESS	TITLE **TOP COVER**		
	FINISH **CLEAN**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:2**	SHEET **6 /12**	DWG NO. **11809002**	REV NO. **05**

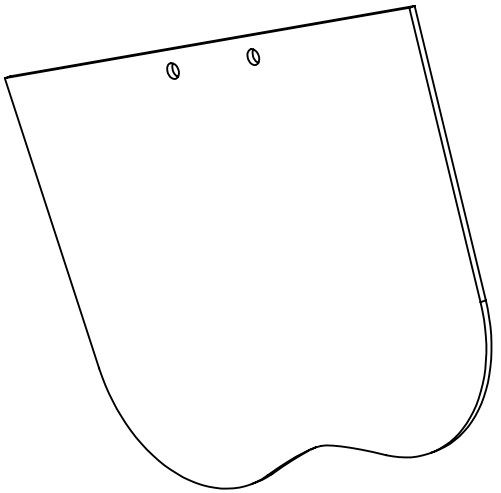


ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

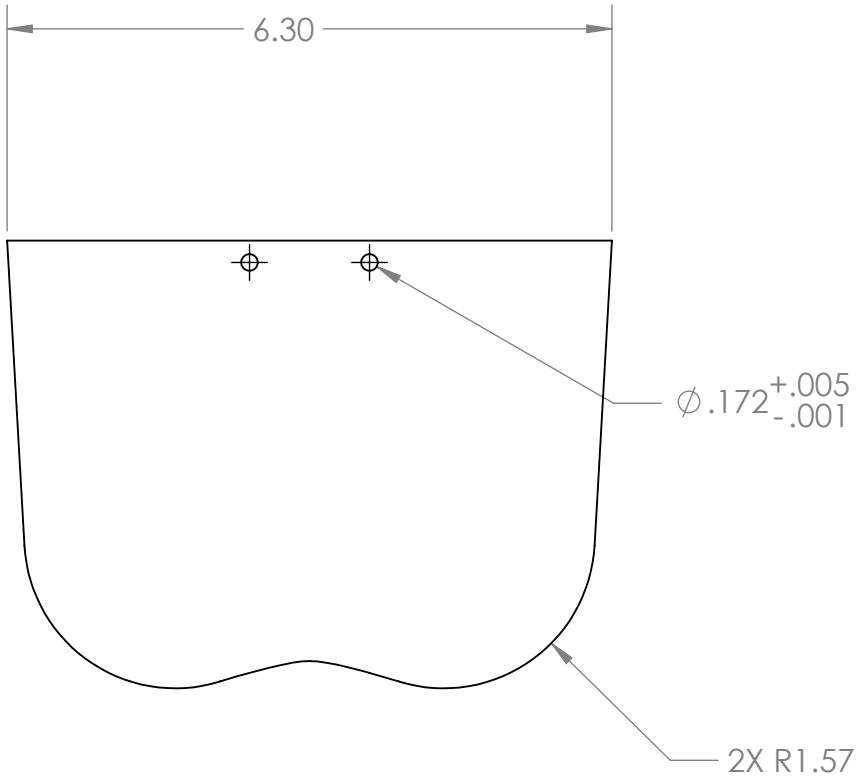


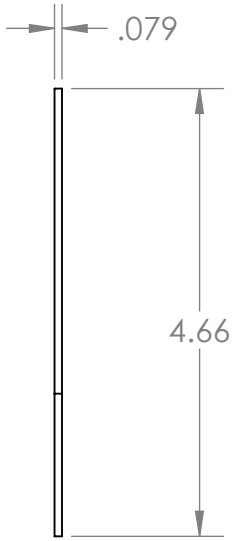


Concordia	MATERIAL **STRETCHABLE FABRIC**		SURFACE ROUGHNESS	TITLE **HEAD STRAP**		
	FINISH		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED	A SIZE	DATE **3/19/2018**	USED ON **MECH 490**	
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:4**	SHEET **7 /12**	DWG NO. **11809005**	REV NO. **02**

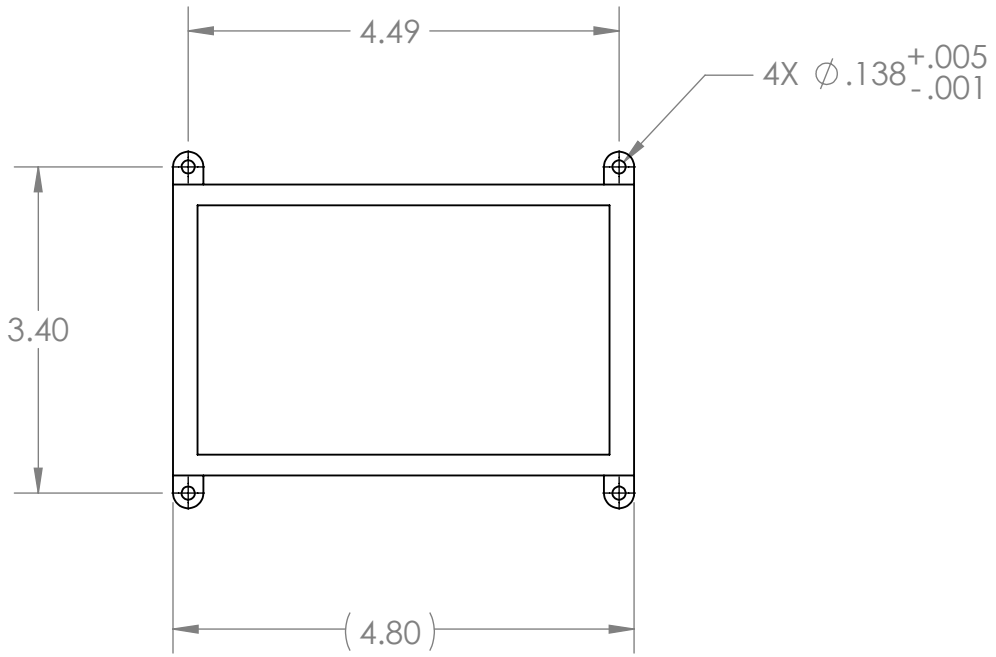


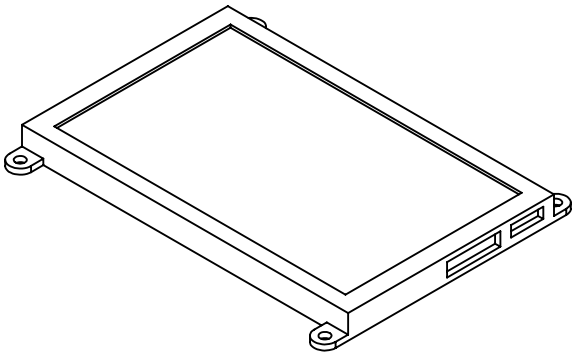
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY



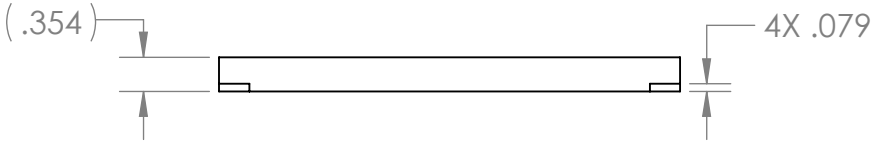


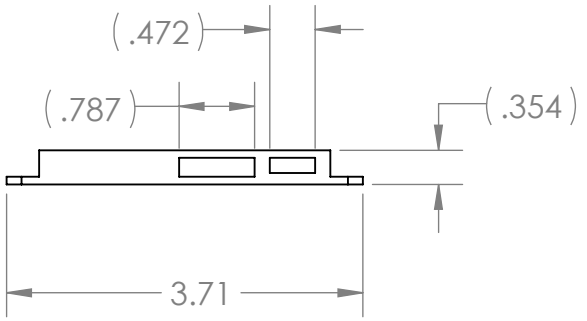
Concordia UNIVERSITY	MATERIAL **ACRYLIC**		SURFACE ROUGHNESS	TITLE **HEADS UP DISPLAY**		
	FINISH		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:2**	SHEET **8 /12**	DWG NO. **11809006**	REV NO. **02**



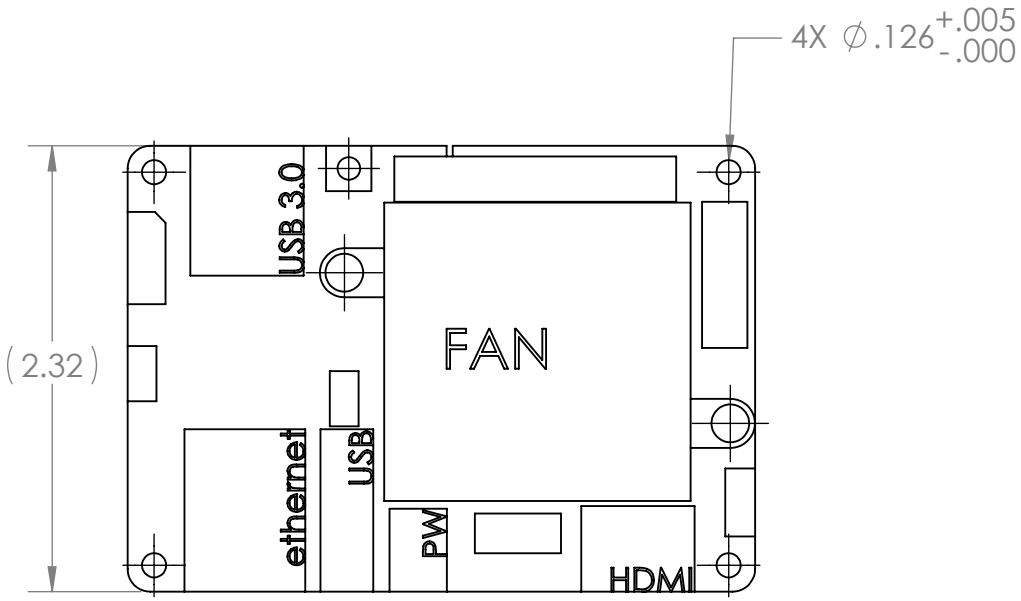


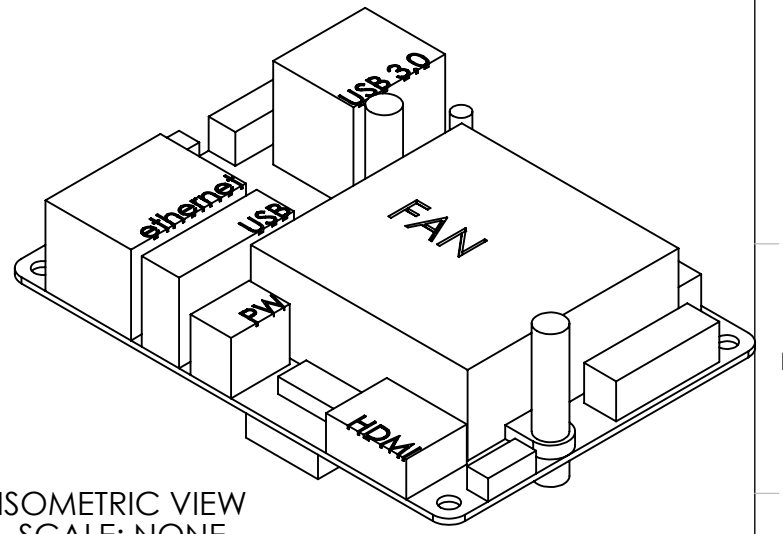
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY



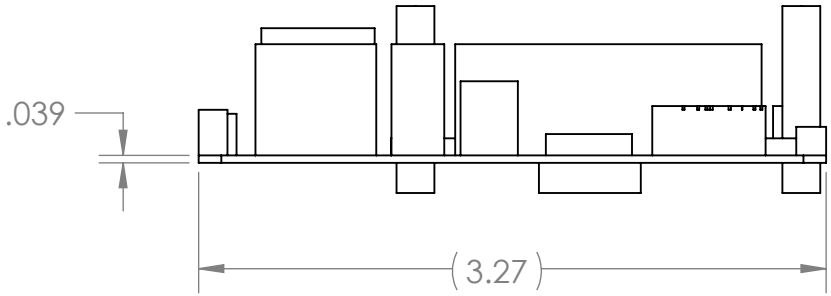


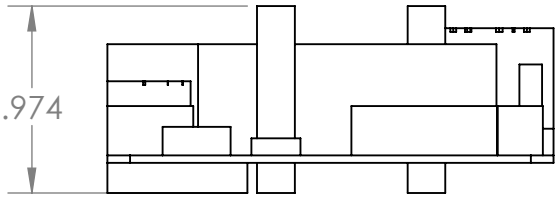
Concordia	MATERIAL **ABS**		SURFACE ROUGHNESS	TITLE **SCREEN**		
	FINISH **CLEAN**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION. NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **A. SHAWWA**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **M. A. YADAO**	APPROVED **R. PATEL**	SCALE **1:2**	SHEET **9 /12**	DWG NO. **11809011**	REV NO. **04**



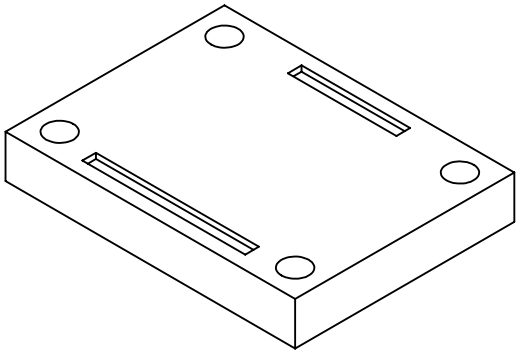


ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

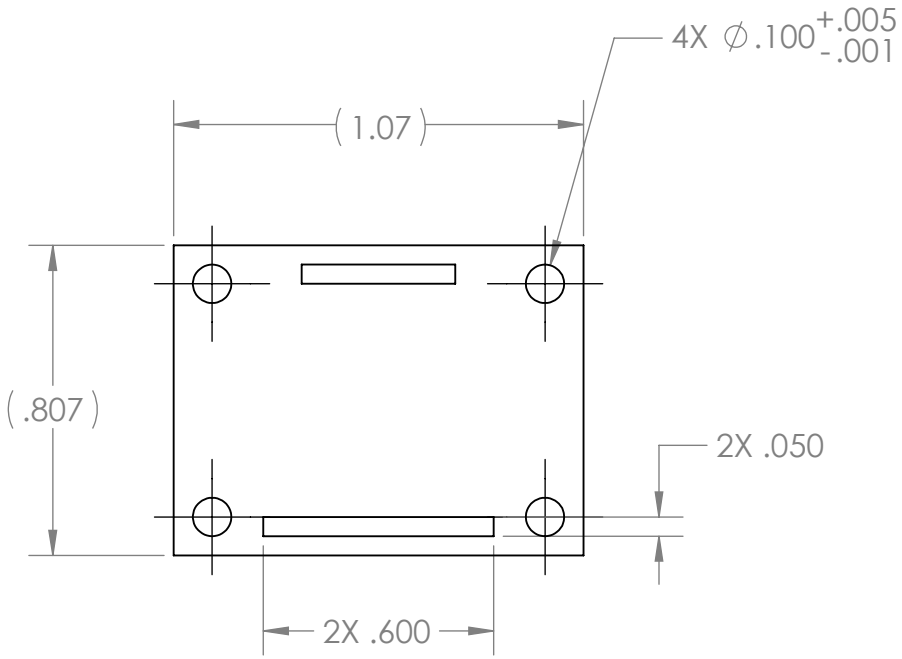


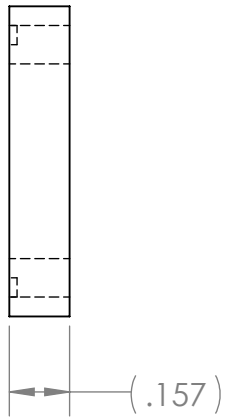


Concordia	MATERIAL **VARIES**		SURFACE ROUGHNESS	TITLE **ODROID XU4**		
	FINISH **VARIES**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **ONLINE**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **ONLINE**	APPROVED **ONLINE**	SCALE **1:1**	SHEET **10/12**	DWG NO. **0007A**	REV NO. **04**

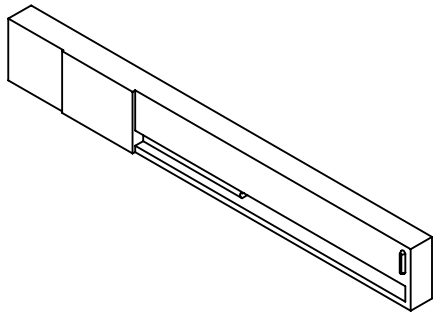


ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

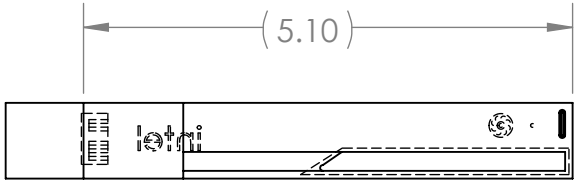


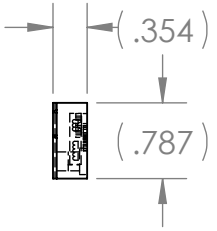


Concordia	MATERIAL **VARIES**		SURFACE ROUGHNESS	TITLE **ADAFRUIT BNO055 MOTION SENSOR**		
	FINISH **VARIES**		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5°			
PROPRIETARY INFORMATION. NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **ONLINE**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **ONLINE**	APPROVED **ONLINE**	SCALE **2:1**	SHEET **11/12**	DWG NO. **ADA2472**	REV NO. **04**

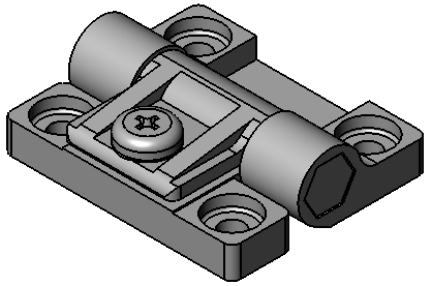


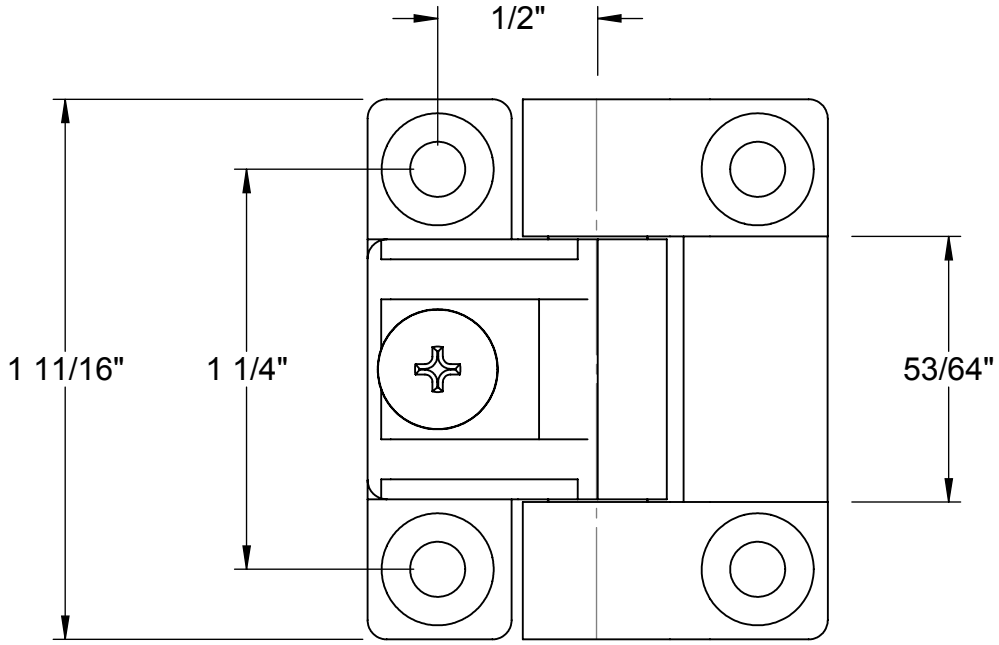
ISOMETRIC VIEW
SCALE: NONE
FOR REFERENCE ONLY

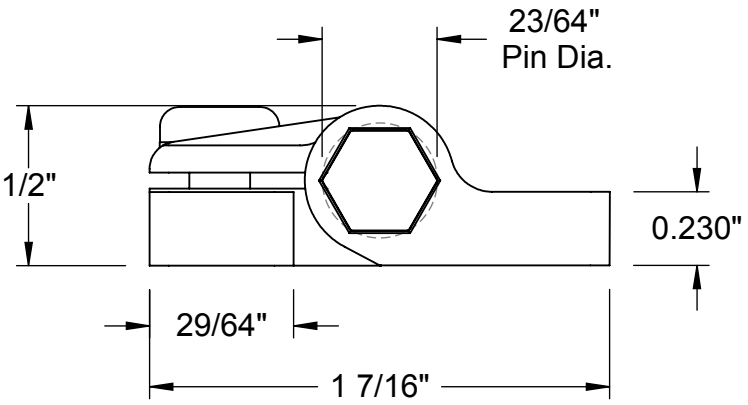




Concordia	MATERIAL **VARIES**		SURFACE ROUGHNESS	TITLE **INTEL REALSENSE CAMERA R200**		
	FINISH **VARIES**		TOLERANCES X ± .1 .X ± .05 .XX ± .005 .XXX ± .002 ANGLE ± .5°			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **ONLINE**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED		A SIZE	DATE **3/19/2018**	USED ON **MECH 490**
	DRAFTER **ONLINE**	APPROVED **ONLINE**	SCALE **1:2**	SHEET **12/12**	DWG NO. **MM#939143**	REV NO. **04**



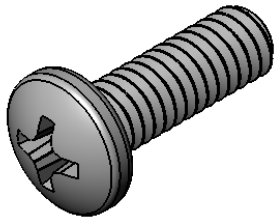


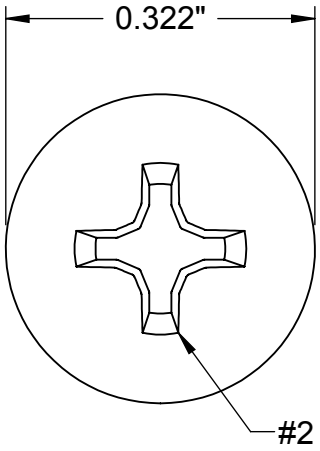


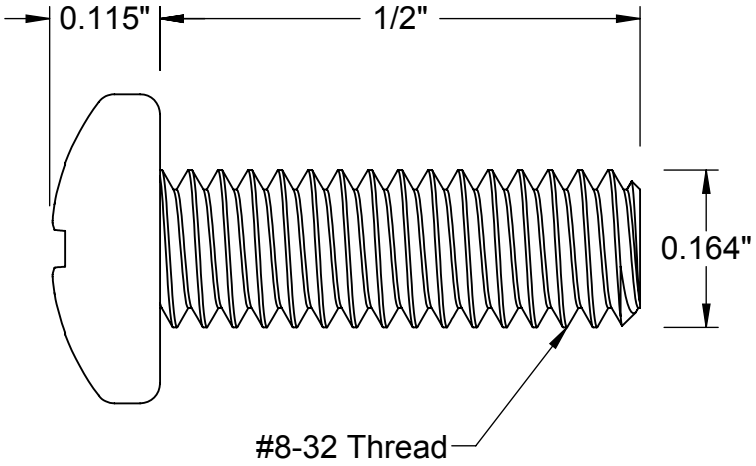
Hinge uses #8 screws.

PART NUMBER **1791A44**

Adjustable-Friction Hinge





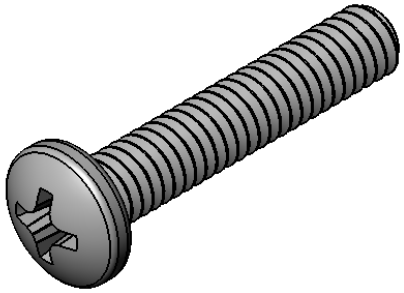


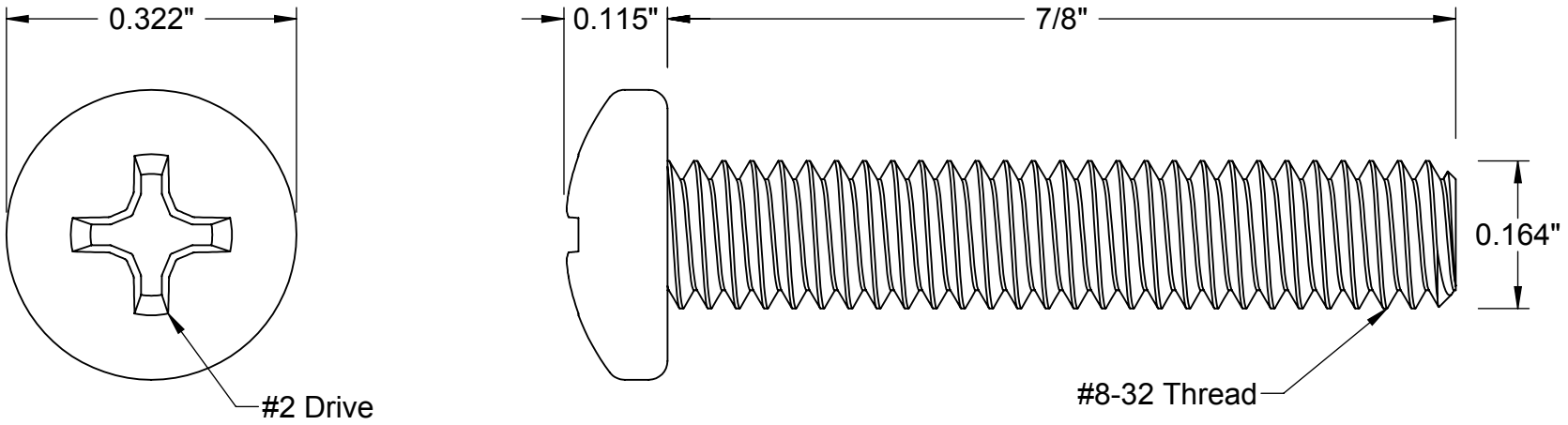
McMASTER-CARR® CAD

http://www.mcmaster.com

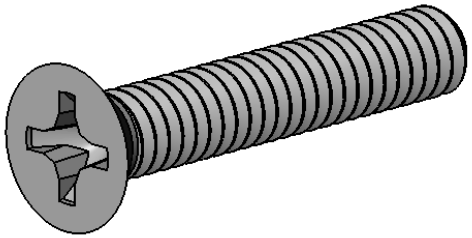
PART NUMBER **90272A194**

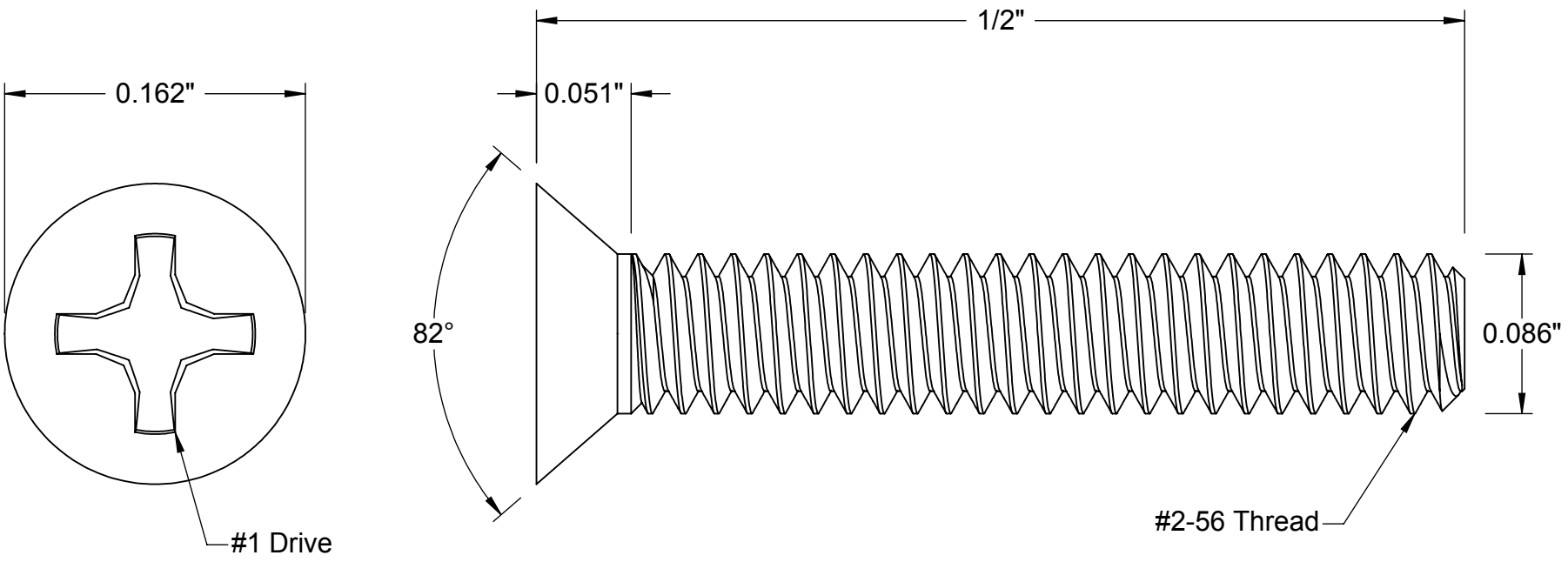
Pan Head Phillips Machine Screw



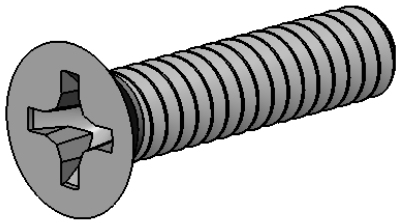


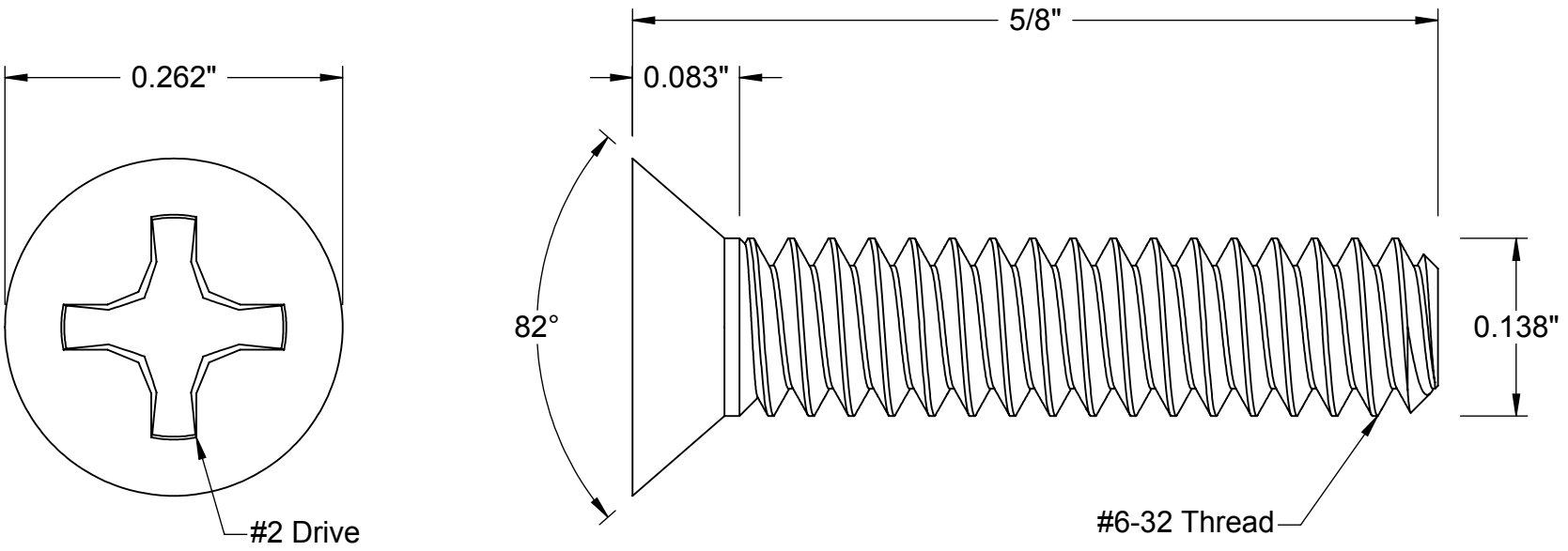
McMASTER-CARR® CAD	PART NUMBER **90272A198**
http://www.mcmaster.com	Pan Head Phillips Machine Screw



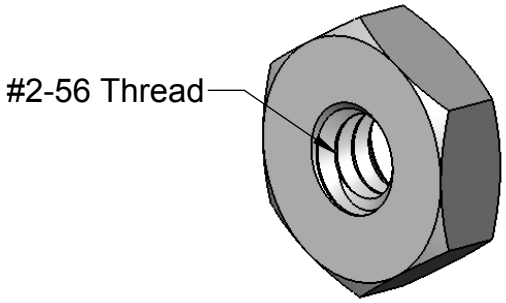


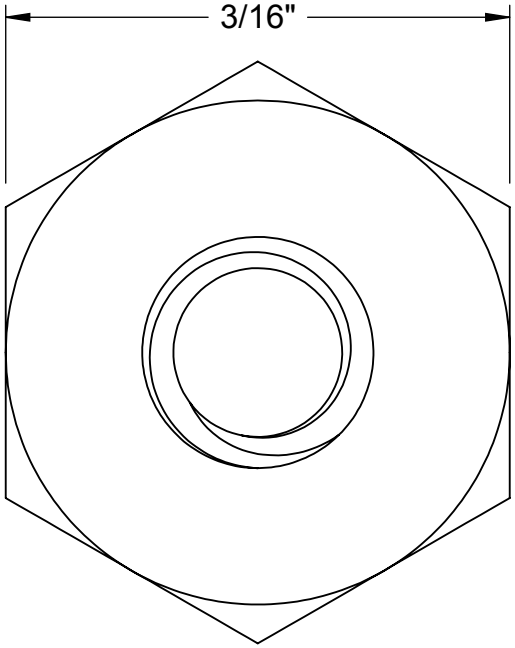
McMASTER-CARR® CAD	PART NUMBER 90273A070
http://www.mcmaster.com	Flat Head Phillips Machine Screw

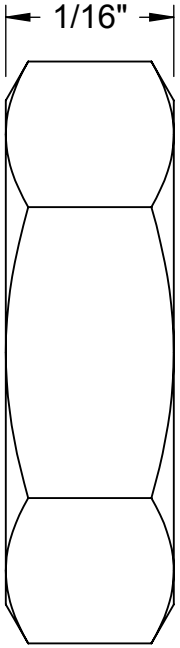




McMASTER-CARR® CAD	PART NUMBER 90273A150
http://www.mcmaster.com	Flat Head Phillips Machine Screw





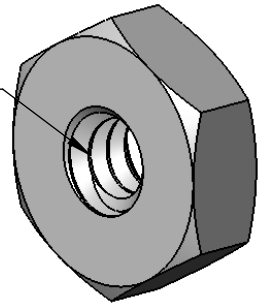


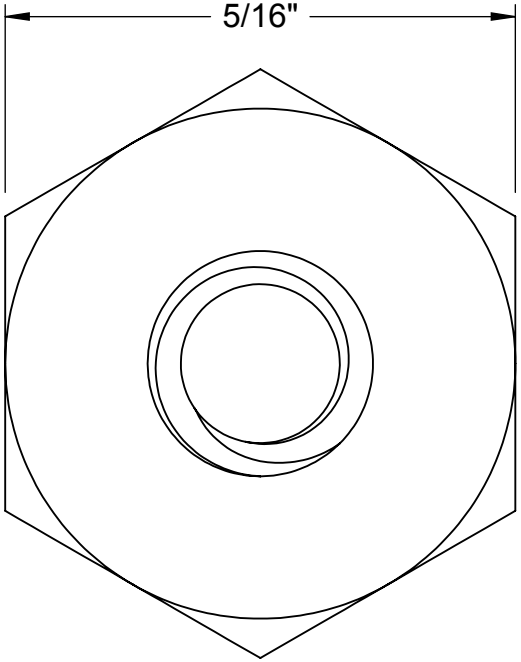
McMASTER-CARR® CAD

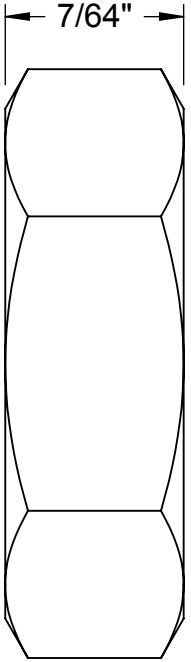
http://www.mcmaster.com

PART NUMBER **90480A003**

Hex Nut





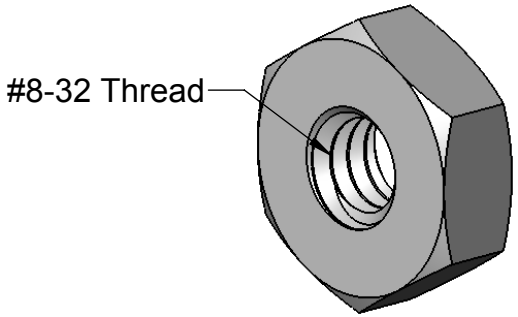


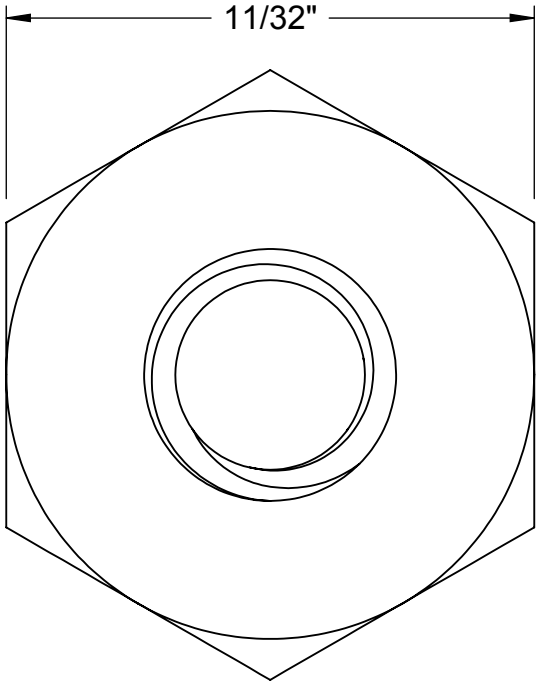
McMASTER-CARR® CAD

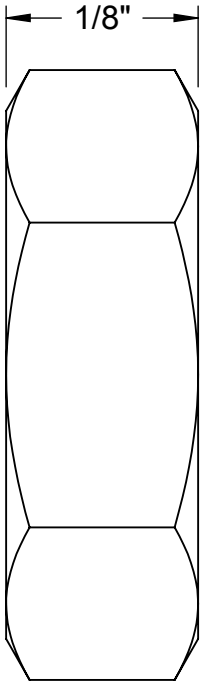
http://www.mcmaster.com

PART NUMBER **90480A007**

Hex Nut







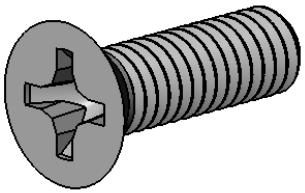
McMASTER-CARR® CAD

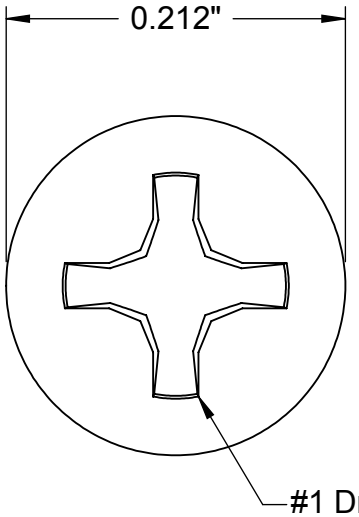
http://www.mcmaster.com

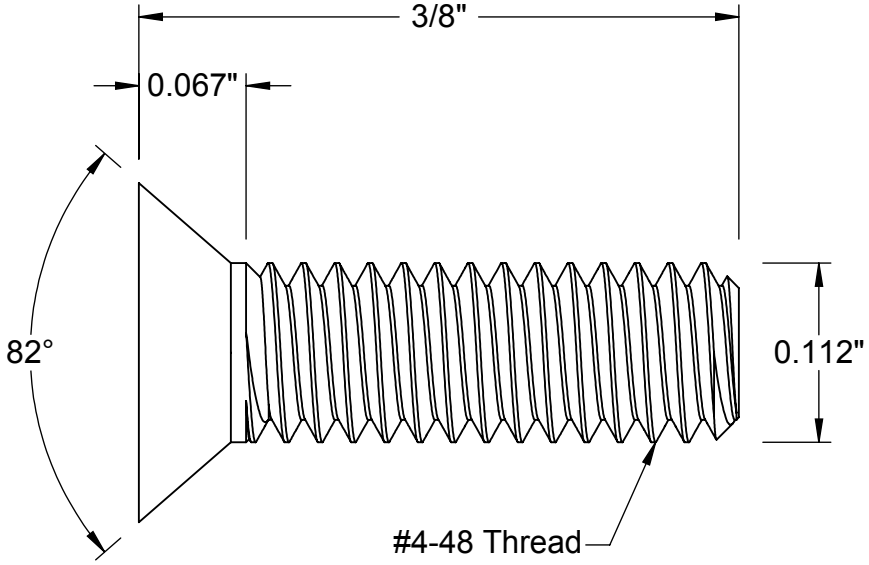
Information in this drawing is provided for reference only.

PART NUMBER **90480A009**

Hex Nut







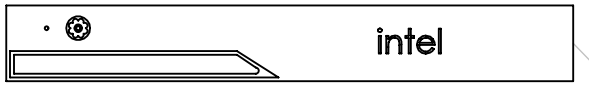
McMASTER-CARR® CAD

http://www.mcmaster.com

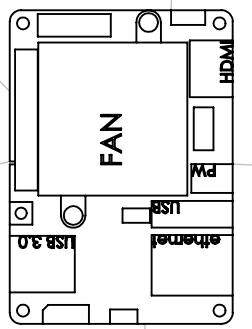
PART NUMBER **91771A742**

Flat Head Phillips Machine Screw

BNO055



REALSENSE R200



ODROID XU4

KEYBOARD +MOUSE

EXTERNAL POWER SOURCE

SCREEN

Concordia	MATERIAL -		SURFACE ROUGHNESS √63	TITLE **SYSTEM DIAGRAM**		
	FINISH -		TOLERANCES X ± .1, .X ± .05, .XX ± .005, .XXX ± .002, ANGLE ± .5° (UNLESS OTHERWISE SPECIFIED)			
PROPRIETARY INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION FROM CONCORDIA UNIVERSITY	DESIGNER **TEAM**	ALL DIMENSIONS IN **INCHES** UNLESS OTHERWISE SPECIFIED	A SIZE	DATE **3/30/2018**	USED ON **MECH 490**	
	DRAFTER **TEAM**	APPROVED **TEAM**	SCALE -	SHEET **1 / 1**	DWG NO. **1**	REV NO. **2**