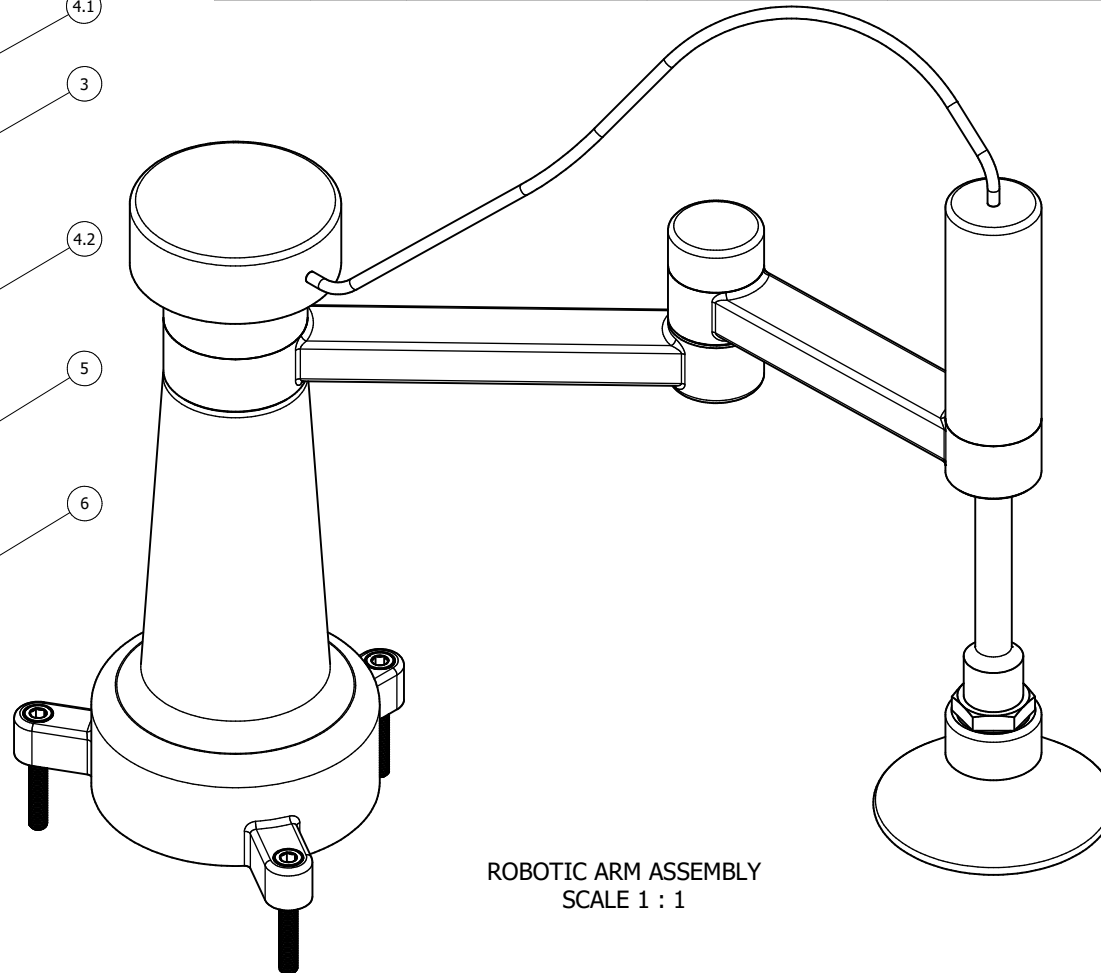


ROBOTIC ARM EXPLODED ASSEMBLY  
SCALE 1 / 2



ROBOTIC ARM ASSEMBLY  
SCALE 1 : 1

PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	BASE E-01	ALUMINUM	PAINT
2	1	ARM E-01	ALUMINUM	PAINT
3	1	ARM E-02	ALUMINUM	PAINT
4	1	SLIDING TUBE SUB-ASSEMBLY	STEEL	
4.1	1	SLIDING TUBE TOP	STEEL	
4.2	1	SLIDING TUBE BOTTOM	STEEL	
5	1	VACUUM CONNECTOR	STEEL	
6	1	VACUUM CUP	BLACK RUBBER	
7	1	BASE CAP	ALUMINUM	PAINT
8	1	ELBOW CAP	ALUMINUM	PAINT
9	1	VACUUM CAP	ALUMINUM	PAINT
10	1	VACUUM LINE	CLEAR RUBBER	.125" OD, .0625" ID, 12" LONG
11	3	SOCKET HEAD CAP SCREW	STAINLESS STEEL	10-32 UNF, 1.25" LONG, PARTIALLY THREADED - MCMMASTER CARR 9216A276

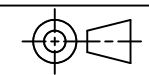


DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

WWW.DDGT.NET

GENERAL NOTES:  
ALL ROUNDS AND  
FILLETS .06 UNLESS  
OTHERWISE SPECIFIED  
ALL CHAMFERS .02 X .02  
UNLESS OTHERWISE  
SPECIFIED

**Cosmic Curiosities**  
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http://ddgt.net/StudentPages/sezepeda



TOLERANCES UNLESS SPECIFIED:  
DECIMAL INCHES:  
X = ±.020  
XX = ±.010  
XXX = ±.005  
FRACTIONAL ±1/64"  
ANGLES ±1 DEGREE  
SURFACES  $\sqrt{\text{V}}$

CLASS: DDGT 241  
ASSIGNMENT #: #11  
INVENTOR DRAWING NAME: ROBOTIC ARM

**LEGEND:**  
Ø DIAMETER  
R RADIUS  
° DEGREES  
└┘ COUNTERBORE  
▽ DEPTH

REV	DATE	DESCRIPTION	APPROVED	SHEET
3	2/29/2024	LENGTH OF SLIDING TUBE BOTTOM CHANGED FROM 4.19" TO 5.19"	G. STROMMEN	3
3	2/29/2024	LENGTH OF ARM E-02 CHANGED FROM 4.50" TO 5.00"	G. STROMMEN	3
2	2/29/2024	LENGTH OF ARM E-01 CHANGED FROM 4.50" TO 5.00"	G. STROMMEN	2
1	2/29/2024	HEIGHT OF BASE E-01 CHANGED FROM 3.00" TO 4.00"	G. STROMMEN	2

FIG #: 1058  
MANAGER: G. STROMMEN  
DRAFTER: S. ZEPEDA  
DATE: 2/28/2024  
SCALE: AS NOTED  
PAGE #: 1 OF 4

REVISION HISTORY

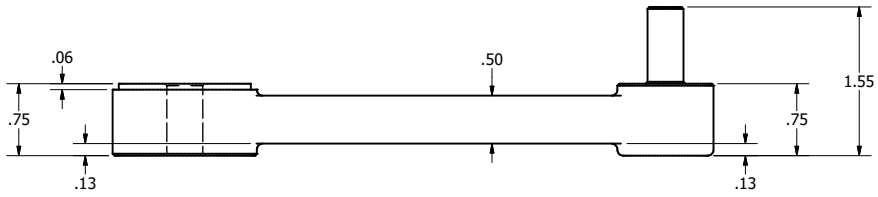
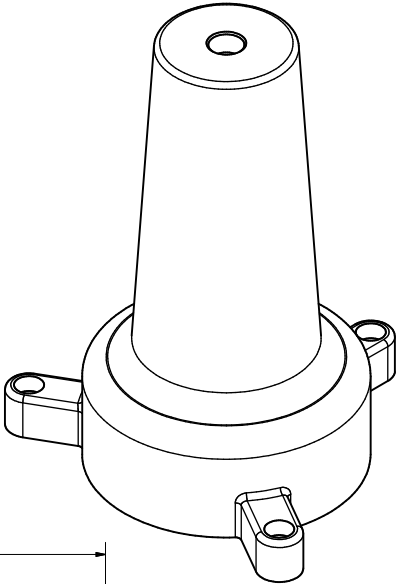
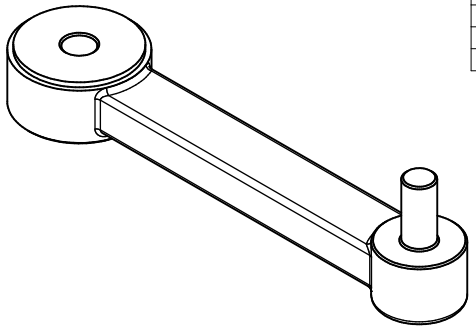
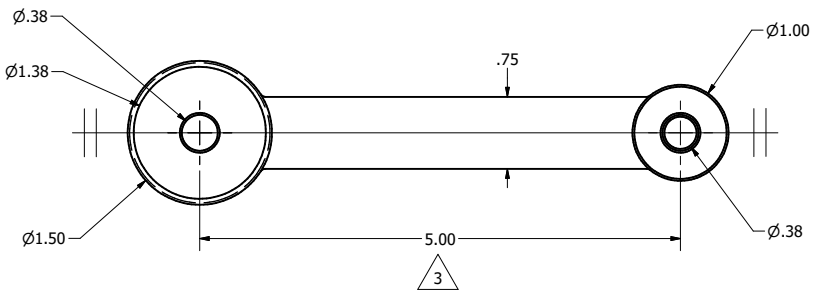
PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	BASE E-01
2	1	ARM E-01



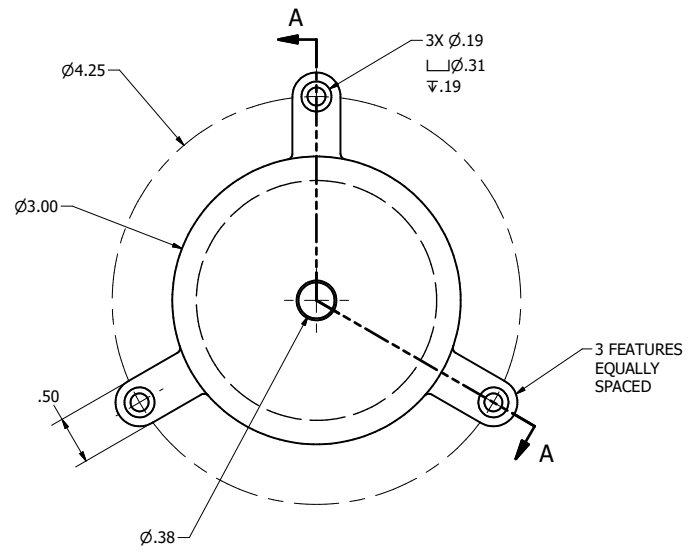
DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

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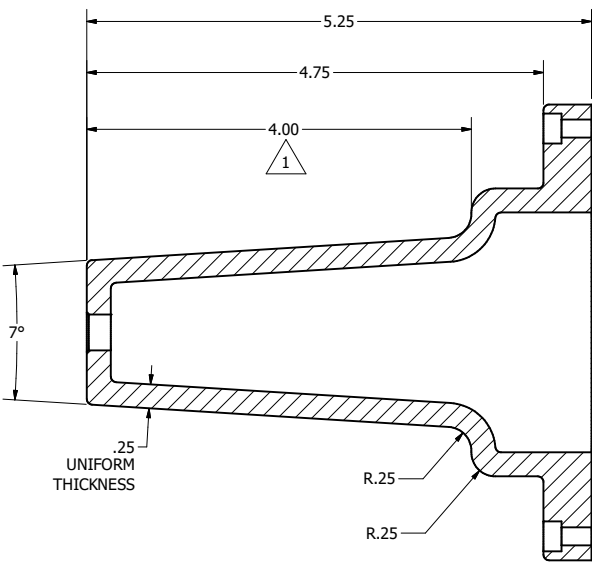
GENERAL NOTES:  
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FILLETS .06 UNLESS  
OTHERWISE SPECIFIED  
ALL CHAMFERS .02 X .02  
UNLESS OTHERWISE  
SPECIFIED



ARM E-01  
SCALE 1 : 1



BASE E-01  
SCALE 1 : 1



SECTION A-A  
SCALE 1 : 1

**LEGEND:**

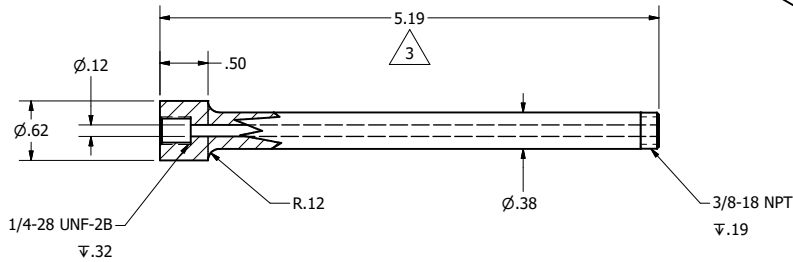
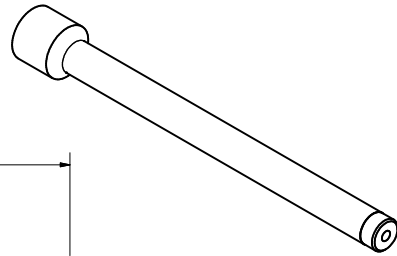
- Ø DIAMETER
- R RADIUS
- ° DEGREES
- └ COUNTERBORE
- ▽ DEPTH

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FRACTIONAL ±1/64"  
ANGLES ±1 DEGREE  
SURFACES √

CLASS:	DDGT 241
ASSIGNMENT #:	#11
INVENTOR DRAWING NAME:	ROBOTIC ARM
FIG #:	1058
MANAGER:	G. STROMMEN
DRAFTER:	S. ZEPEDA
DATE:	2/28/2024
SCALE:	AS NOTED
PAGE #:	2 OF 4

REV	DATE	DESCRIPTION	APPROVED	SHEET
2	2/29/2024	LENGTH OF ARM E-01 CHANGED FROM 4.50" TO 5.00"	G. STROMMEN	2
1	2/29/2024	HEIGHT OF BASE E-01 CHANGED FROM 3.00" TO 4.00"	G. STROMMEN	2
		REVISION HISTORY		

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SLIDING TUBE BOTTOM  
SCALE 1 : 1

**LEGEND:**

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ┌ COUNTERBORE
- ▽ DEPTH

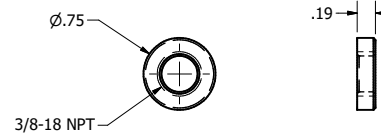
PARTS LIST		
ITEM	QTY	PART NUMBER
3	1	ARM E-02
4	1	SLIDING TUBE SUB-ASSEMBLY
4.1	1	SLIDING TUBE TOP
4.2	1	SLIDING TUBE BOTTOM
5	1	VACUUM CONNECTOR



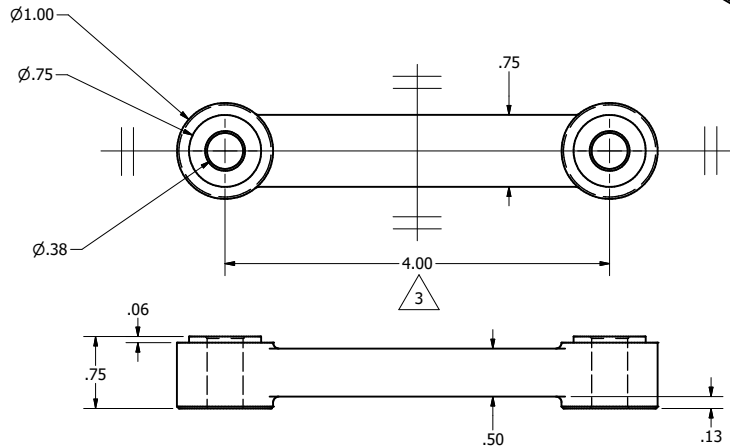
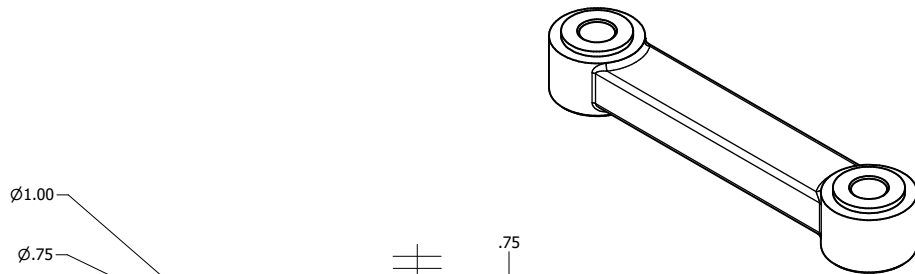
DIGITAL DESIGN  
GRAPHICS  
TECHNOLOGY

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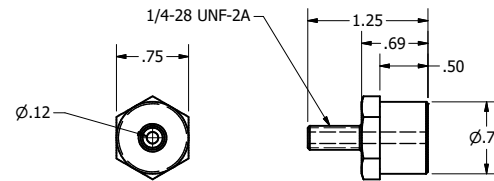
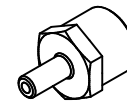
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UNLESS OTHERWISE  
SPECIFIED



SLIDING TUBE TOP  
SCALE 1 : 1



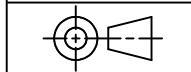
ARM E-02  
SCALE 1 : 1



VACUUM CONNECTOR  
SCALE 1 : 1



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ANGLES ±1 DEGREE  
SURFACES ▽

CLASS: DDGT 241

ASSIGNMENT #: #11

INVENTOR DRAWING NAME:  
ROBOTIC ARM

FIG #: 1058

MANAGER: G. STROMMEN

DRAFTER: S. ZEPEDA

DATE: 2/28/2024

SCALE: AS NOTED

PAGE #: 3 OF 4

REV	DATE	DESCRIPTION	APPROVED	SHEET
3	2/29/2024	LENGTH OF SLIDING TUBE BOTTOM CHANGED FROM 4.19" TO 5.19"	G. STROMMEN	3
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REV	DATE	DESCRIPTION	APPROVED	SHEET

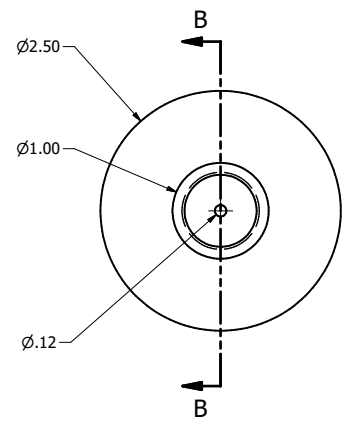
REVISION HISTORY

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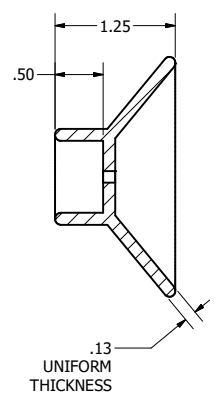
PARTS LIST		
ITEM	QTY	PART NUMBER
6	1	VACUUM CUP
7	1	BASE CAP
8	1	ELBOW CAP
9	1	VACUUM CAP

### LEGEND:

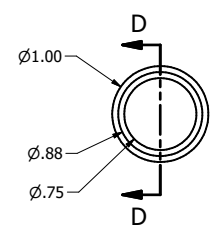
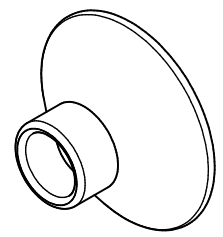
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- R RADIUS
- ° DEGREES
- ┌ COUNTERBORE
- ▽ DEPTH



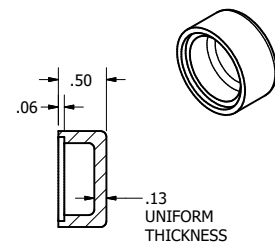
VACUUM CUP  
SCALE 1 : 1



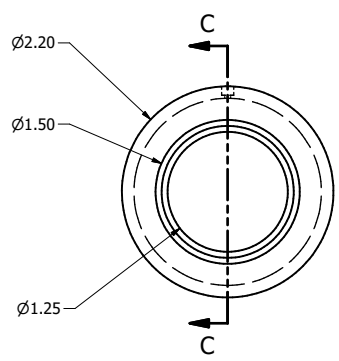
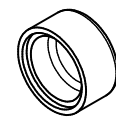
SECTION B-B  
SCALE 1 : 1



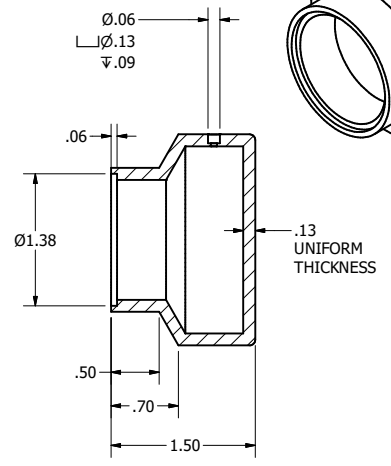
ELBOW CAP  
SCALE 1 : 1



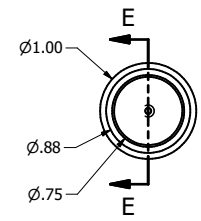
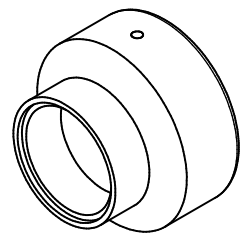
SECTION D-D  
SCALE 1 : 1



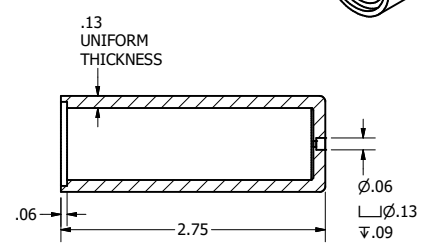
BASE CAP  
SCALE 1 : 1



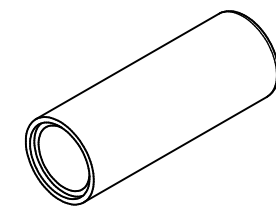
SECTION C-C  
SCALE 1 : 1



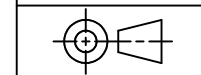
VACUUM CAP  
SCALE 1 : 1



SECTION E-E  
SCALE 1 : 1



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PAGE #:	4 OF 4