

MEEN 401/402

REQUEST FOR MATERIALS AND SUPPLIES

GROUP MEMBER'S NAMES			UIN	PHONE #	PROJECT SPONSOR:	BRAY INTERNATIONAL
1	Avery Haynes		530000712	(832)-762-9627	ACCOUNT NUMBER:	02-460006-24005
2	Zachary Walker		330003562	(281)-825-7331	CLASS-SECTION:	402-500
3	Locke Lehmann		430002965	(832)-334-6376	STUDIO INSTRUCTOR:	Dr. Wei Chen
4	Cody Sims		329008400	(832)-326-8252	STUDIO APPROVAL:	approval via email
5	Travis Carlson		930005840	(281)-851-7669	PROJECT APPROVER:	Dr. Joanna Tsenn
6	Michael Hager		430006723	(214)-772-5497	APPROVAL SIGNATURE:	approval via email
7					DATE:	Jan 16, 2024
8					SHIPPING TO (name of student):	Avery Haynes
9					SHIP TO ADDRESS:	JCAIN (default)

ITEMS TO BE USED BY GROUP MEMBERS ONLY. ALL UNUSED ITEMS ARE TO BE RETURNED.

	QTY.	ITEM #	DESCRIPTION	COMPANY	URL	\$/UNIT	COST
Ex:	5	9057K66	2" x 12", 1" thick aluminum	McMaster-Carr	https://www.mcmaster.com/	\$ 61.72	\$ 308.60
1	1	B0831H3SQX	Fielect 5Pcs DC Motor 1.5-6V 5000-20000RPM Micro Motor M	Fielect	Amazon.co	\$ 11.49	\$ 11.49
2	1	B08PZ6YF6L	Neosmuk Rare Earth Magnets	Neosmuk	Neosmuk B	\$ 11.99	\$ 11.99
3	1		Vilros Raspberry Pi 4 Complete Starter Kit	Vilros	Amazon.co	\$ 104.99	\$ 104.99
4							\$ -
5							\$ -
6							\$ -
7							\$ -
8							\$ -
9							\$ -
10							\$ -
11							\$ -
12							\$ -
13							\$ -
14							\$ -
15							\$ -
16							\$ -
17							\$ -
18							\$ -
19							\$ -
20							\$ -
21							\$ -
22							\$ -
23							\$ -
24							\$ -
25							\$ -
Ship Speed:				Ground/Default	ESTIMATED SHIPPING		\$ -
					TOTAL		\$ 128.47

TECHNICAL DESCRIPTION OF HOW THE ITEMS WILL BE USED: (Must provide a detailed description)

DC motor used to estimate energy generation from rotating actuator head on a pneumatically powered stotch-yoke valve actuator. Magnets used to be attached to the inner valve casing and detected by a hall effect sensor to determine true valve rotation position. Rasberry Pi used for collecting & processing sensor data for measuring valve position and actuator torque.