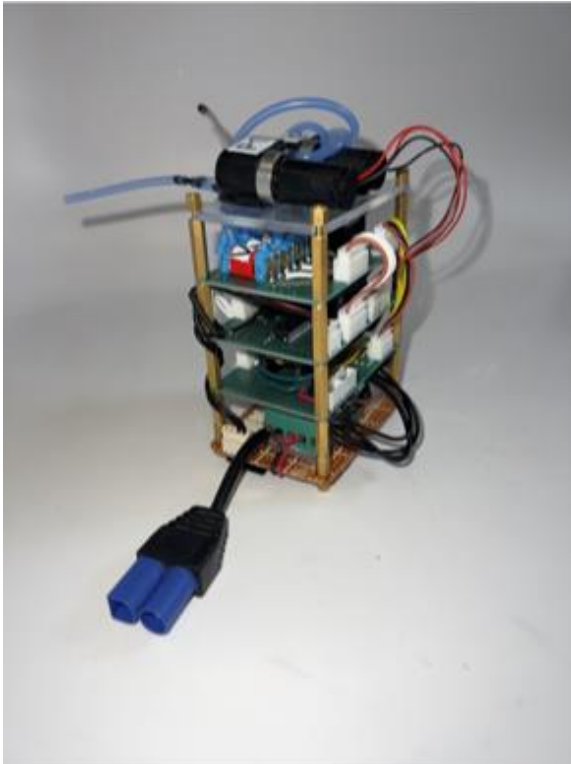


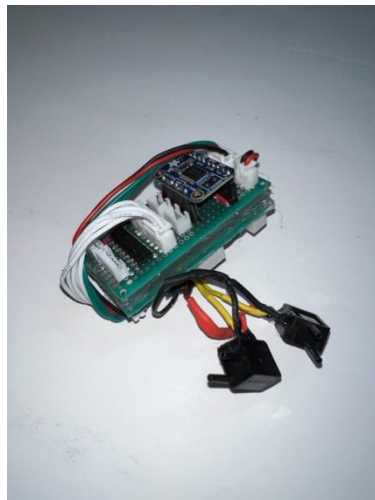
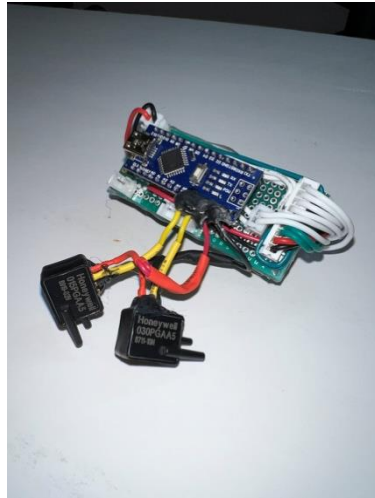
ONR Annual Review Slides

Turtle Robot Electronics Updates – Esteban Figueroa

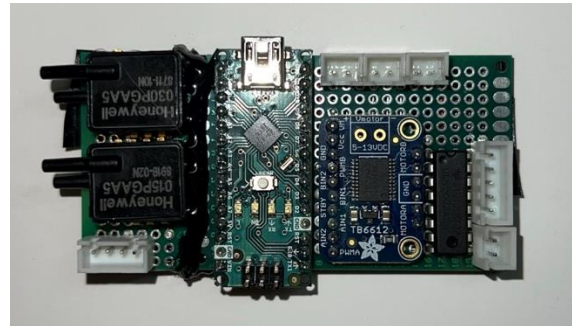
Hardware



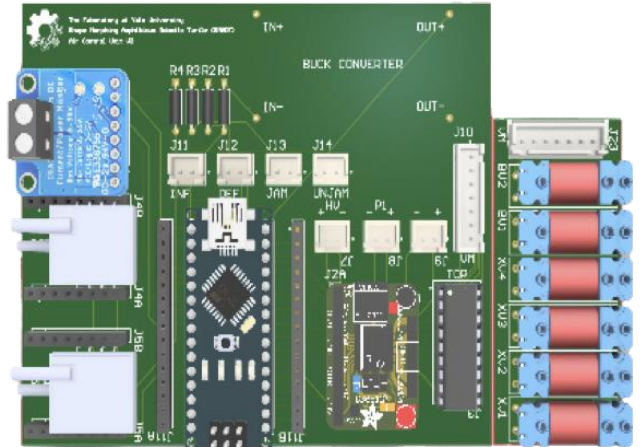
V1
Volume: 180 cm³
Weight: ~ 150 g



V2
Volume: 94.5 cm³
Weight: ~ 64.2 g



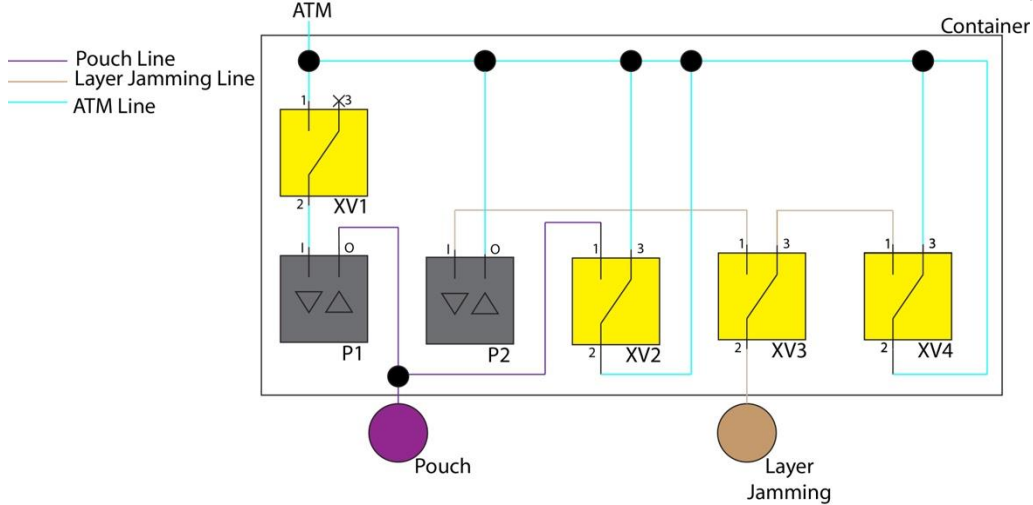
V3
Volume: 32 cm³
Weight: 34 g



V4
Volume: cm³
Weight: g

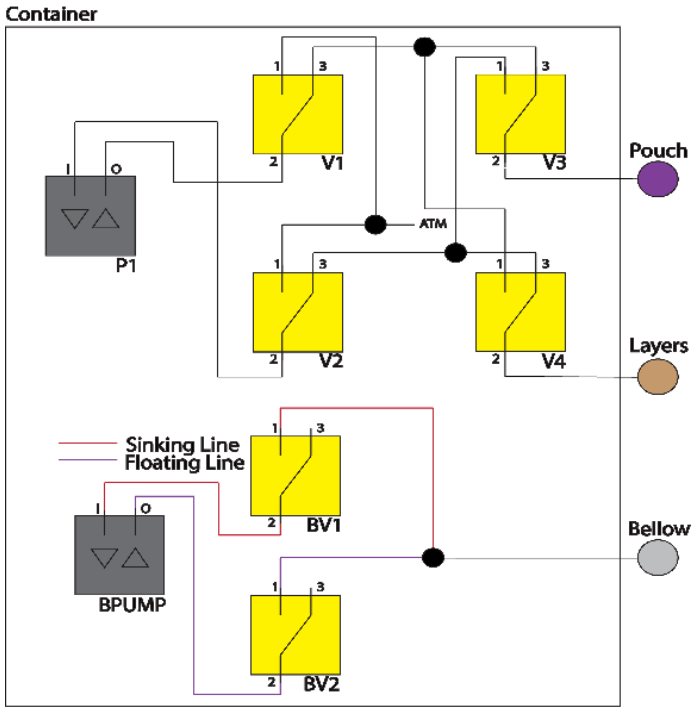
Functionality

Pneumatic System V1						
	XV1	XV2	XV3	XV4	P1	P2
Inflation	1	0	0	0	1	0
Jam	0	0	1	0	0	1
Deflation	0	1	0	0	0	0
Unjam	0	0	0	1	0	0



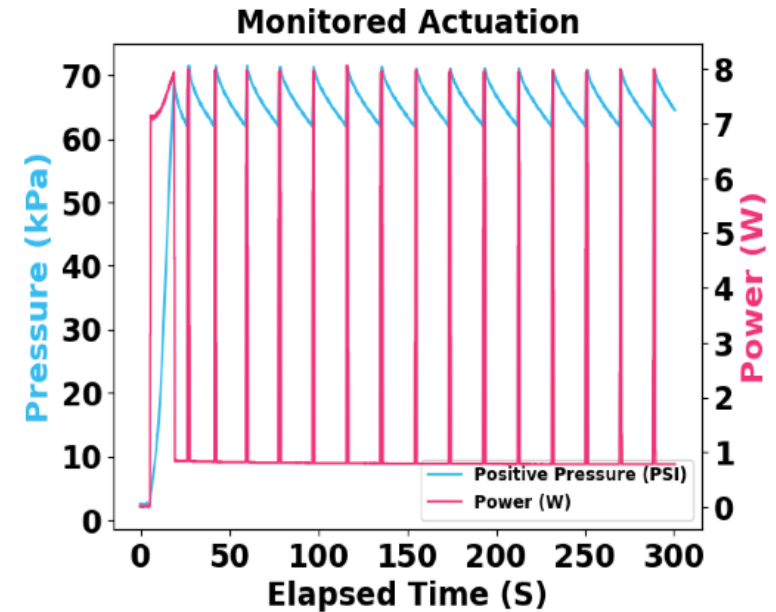
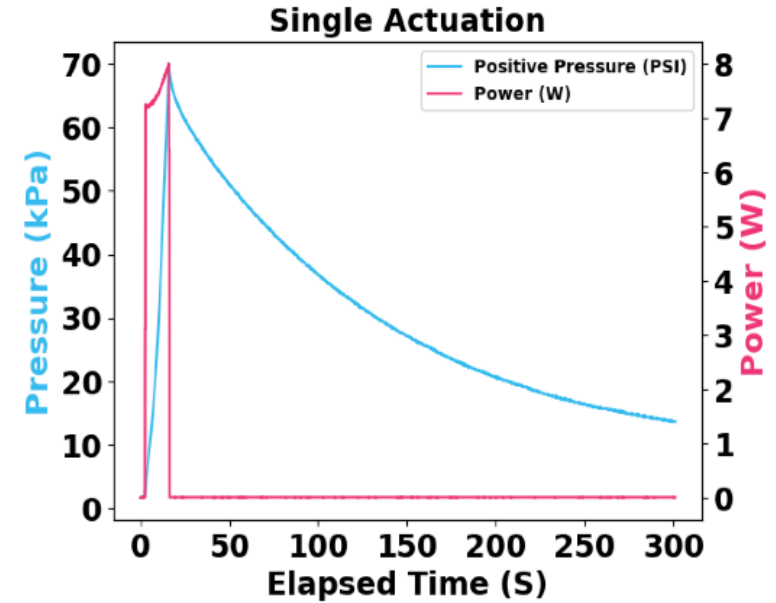
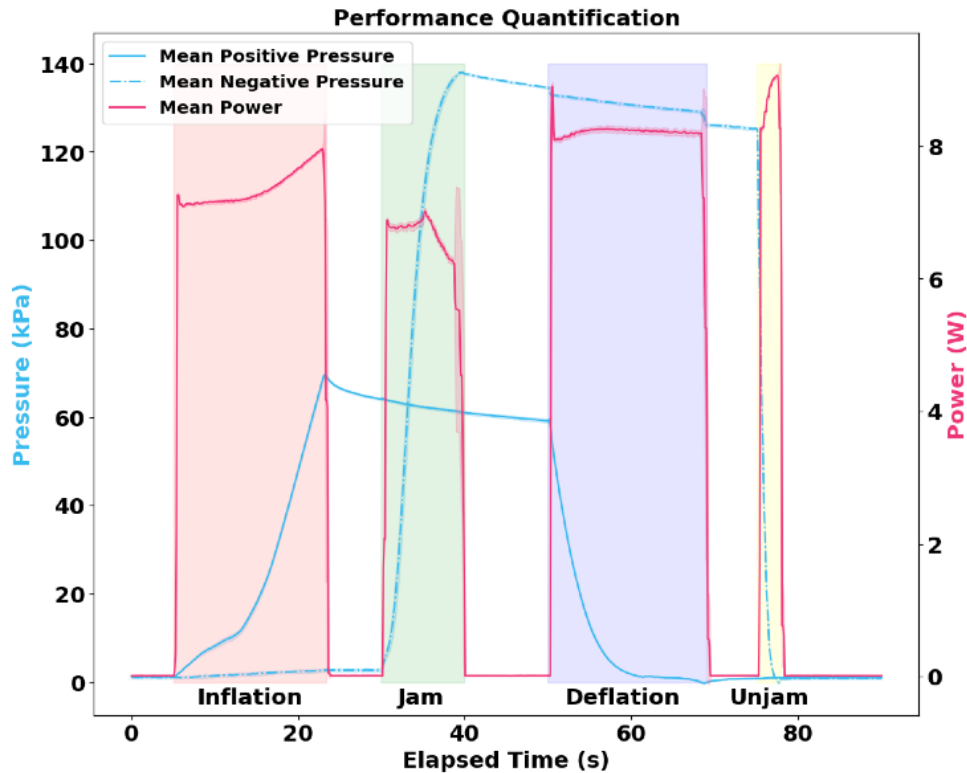
	V1	V2	V3	V4	P1
Inflation	0	1	0	0	1
Jam	1	0	0	0	1
Deflation	1	0	1	1	1
Unjam	0	1	1	1	0

	BXV1	BXV2	BPUMP
Inflation	1	0	1
Deflation	0	1	1



Performance

	Max Pressure (PSI)	Time (s)	Power Consumption (W)
Inflation	10	18	7.16
Jam	20	9	6.36
Deflation	0	18	8.04
Unjam	0	3	8.42



Cost of Morphing (MARTY – Current Iteration)

