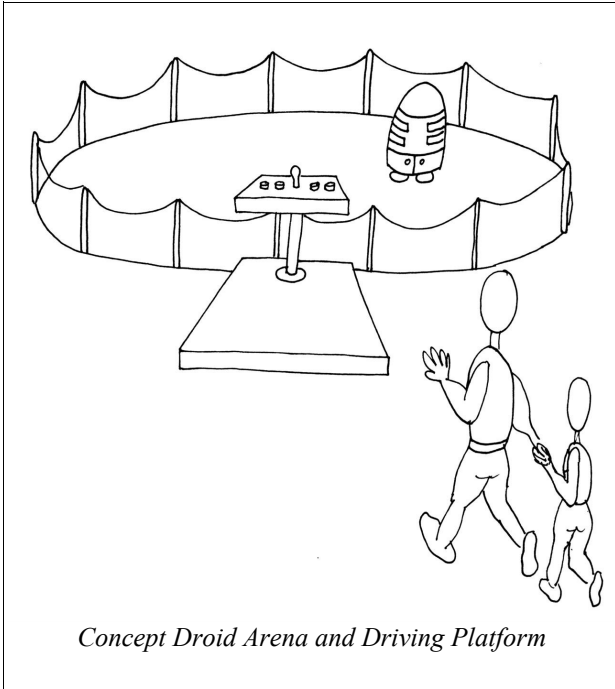


DRIVE A DROID

AN EXCITING INTERACTIVE EXHIBIT



Concept Droid Arena and Driving Platform

With **Drive a Droid**, children and adults get a chance to control a robotic star of the screen! A full-sized replica of the famous R2-D2® robot droid can be remotely controlled from the high-tech driving pedestal. An Arcade-style joystick and button panel allows the “driver” to move the droid forward, backward, in turns and circles, rotate the dome, blink lights and play sound effects with music. Sensors in the droid will detect and avoid the roped-off area so the robot's movements are all kept in a safe space.

To make sure a maximum amount of attendees get a chance to control the robot, each driver will be given 30 seconds of **complete control** over the droid, while folks in line can watch the remaining seconds count down on a large numeric readout. Once a turn is over, the next person in line can step up and experience tele-operation of this most famous of

movie robots. Controlling the robot will be simple and intuitive with smaller children easily assisted by a sibling or adult.

The star of this show is a **life-sized** aluminum replica droid being created by local Austin master-machinist Rick Abbott. Works by Rick have been featured in *SERVO* and *Nuts and Volts* magazines

and he is also a member of the international R2-D2® Builders Club. Rick has spent years meticulously hand making the parts for this 1:1 full-scale version of the movie robot “R2-D2® from the Star Wars® series. When completed, this droid will move around, make sounds and blink lights just like the lovable robot featured in the Star Wars® films. Since Rick has already invested thousands of hours and dollars into the droid, funding from First Night Austin will allow the project to be completed quickly!



Rick Abbot with R2D2® components



R2D2® Always draws a big crowd!

It is estimated that this exhibit will be able to serve 60+ drivers per hour while visually entertaining hundreds of onlookers!

Cost Breakdown for Drive a Droid Proposal

Droid Parts				
Quan	Description	Part #	Price	Total
1	Drive Wheel Vantec Motor Speed Controller	RDFR-23	\$329.00	\$329.00
1	Dome motor controller	MT-CTRL1	\$99.00	\$99.00
1	Audio player w/amp 50w	ACS-CF-CFSoundIII	\$189.00	\$189.00
1	CFSound Contact Sense 24 Expansion Module	ACS-CF2-IO-CS24	\$42.80	\$42.80
1	Speakers Alpine 6x4"	SP2	\$149.00	\$149.00
8	Universal 12V 18AH SLA Battery	UB12180	\$36.50	\$292.00
1	Futaba 7C 2.4GHz FASST Airplane Radio System w/R617FS Receiver	FUTK7000	\$329.99	\$329.99
2	Main Drive DC high current motors	NPC2212	\$155.00	\$310.00
1	Battery Charger	BC1	\$99.00	\$99.00
1	Acrylic panels for power mounting	AC3	\$175.00	\$175.00
1	Holoeye LED lighting display	HL2	\$79.00	\$79.00
1	Holoeye Bezel (Aluminum Surround)	HLB	\$50.00	\$50.00
1	Radar eye mount assembly (resin)	REM-RES	\$277.00	\$277.00
16	Dynamixel AX-12 Servos	AX-12	\$44.90	\$718.40
1	Ccrane CCRANE-FMT transmitter	CCRANE-FMT	\$79.95	\$79.95
			Sub Total:	\$3,219.14

Arena Barrier				
Quan	Description	Part #	Price	Total
4	3/4" PVC T's	PVT-75	\$2.77	\$11.08
6	3/4" PVC end caps	PVEC	\$0.99	\$5.94
1	10' 3/4" PVC pipe	PVCSCH40	\$10.00	\$10.00
			Sub Total:	\$27.02

Drive Station				
Quan	Description	Part #	Price	Total
2	4'x8' 1/2" plywood sheets	PL1	\$25.00	\$50.00
10	Lighted Pushbuttons Small Round, 14V #161 lamp, .250 micro.	D54-0004-20	\$6.60	\$66.00
10	T-3-1/4 Wedge base LED	91-0750-00	\$10.40	\$104.00
2	Analog Joystick with Ultimate Handle	50-2876-00	\$133.95	\$267.90
1	FM receiver dual speaker	BB3	\$89.95	\$89.95
1	RF barrier System	IF3	\$189.00	\$189.00
1	PVC Glue	PVCG1	\$7.99	\$7.99
1	PVC Pipe Primer	PVCPR	\$6.49	\$6.49
1	Spool yellow caution tape	YC3	\$14.99	\$14.99
3	Roll Gaffer tape	GT3	\$6.99	\$20.97
150	Yellow Nylon Rope	RNY4	\$0.50	\$75.00
			Sub Total:	\$892.29

Project Totals				
1	Droid Parts (for completion)	See Above	\$3,219.14	\$3,219.14
20	Arena Barrier (Stands & Rope)	See Above	\$27.02	\$540.40
1	Drive Station (platform and control system)	See Above	\$892.29	\$892.29
			Total:	\$4,651.83

ABOUT THE ARTIST AND HIS WORK

Rick Abbot, a renowned professional machinist from Austin, TX and long time member of The Robot Group, has spent most of the last 2+ years meticulously hand machining the parts to create this amazing exact replica of the Star Wars® R2-D2® droid. Using plans and schematics from the R2 Builders Group, Rick has machined aluminum and steel and worked with resin, styrene and plastic to create the basic framework of the R2 droid unit. He has invested over \$5000.00 in the project so far (not to mention an enormous number of man-hours) and only needs the Droid Parts listed in the attached spreadsheet to complete the project!



**Over \$5000
invested**



**Over 2
Years of
work**



In-Kind Artist contribution to the proposal

In-Kind Contribution				
1	Aluminum Center Foot Caster Bracket	In-house fabrication	\$36.00	\$36.00
3	Steel Foot Strip Plates	In-house fabrication	\$9.00	\$27.00
4	Aluminum Ankle Cylinders	In-house fabrication	\$31.50	\$126.00
4	Aluminum Ankle Side Details	In-house fabrication	\$16.00	\$64.00
4	Copper Braided Battery Cables	In-house fabrication	\$12.50	\$50.00
8	Aluminum Knurled Cable Fittings	In-house fabrication	\$6.25	\$50.00
1	Aluminum Center Ankle	In-house fabrication	\$175.00	\$175.00
3	Aluminum Coin Returns	In-house fabrication	\$35.00	\$105.00
2	Steel Outer Feet	In-house fabrication	\$187.50	\$375.00
2	Aluminum Pocket Vents	In-house fabrication	\$76.00	\$152.00
1	Aluminum Large Data Port	In-house fabrication	\$120.00	\$120.00
1	Aluminum Coin Slots Strip	In-house fabrication	\$33.00	\$33.00
2	Aluminum Octagon Ports	In-house fabrication	\$49.00	\$98.00
2	Outer Legs	In-house fabrication	\$200.00	\$400.00
2	Aluminum Side Vents	In-house fabrication	\$42.50	\$85.00
2	Booster covers	In-house fabrication	\$100.00	\$200.00
2	Aluminum Outer Ankles	In-house fabrication	\$180.00	\$360.00
2	Aluminum Utility Arms	In-house fabrication	\$74.00	\$148.00
2	Front Logic Displays	In-house fabrication	\$32.50	\$65.00
1	Set of Aluminum Front and Rear Logic Surrounds	In-house fabrication	\$98.00	\$98.00
2	Aluminum Power Couplers	In-house fabrication	\$64.00	\$128.00
1	Aluminum Frame	In-house fabrication	\$800.00	\$800.00
1	Steel center Foot	In-house fabrication	\$150.00	\$150.00
2	Aluminum Shoulder hubs	In-house fabrication	\$30.50	\$61.00
1	Set Aluminum Top/Bottom Vents	In-house fabrication	\$90.00	\$90.00
2	Aluminum Horseshoes w/shims	In-house fabrication	\$107.50	\$215.00
2	Auminum Leg Struts	In-house fabrication	\$32.50	\$65.00
1	Sheet Styrene Skins	In-house fabrication	\$15.00	\$15.00
1	Polycarbonate Dome	In-house fabrication	\$40.00	\$40.00
2	Foot Drive Assembly	In-house fabrication	\$450.00	\$900.00
			Sub Total	\$5,231.00

Artist Contact Information:

Rick Abbott
 512-809-5408
dlluwh@sbcglobal.net
<http://www.TheRobotGroup.org>