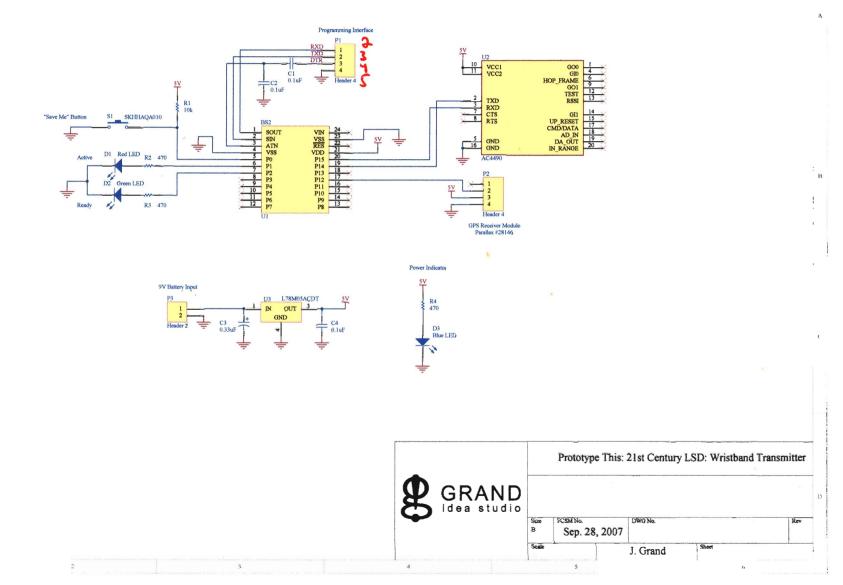
AIR CANNON PA IN ntelligent Payload: -Batter-powerd reed suiter, - prevent misfing of other very very X-or use migre 10 - Must recene will's fisser to reflate for Common 7 - annon to think & frost payload as gludge necessary - muzzle verbild - pressure (muzzle) - und speed X stevet sonto)-- Veb com - Lasv moe frier - Servo conto) (pan 1891/ Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com

2157 CENTRY GRECAME SMART PACKAGES 10/0 555 TIMER + DIGITAL POTENTIOMETER La TRIBLER LIFE SAVER PARKABE AT DESIRGO TIME ABOVE VATER Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com

71st CENTRY UPBSANG. WENSTRAND AGROCOMM ACYYGO h low-tra han Jostie Ke Stelf "TRAYENG: PPOORTS? -WATER-PROF -ANTENNA MUT BE ABOVE STUT-WATER Approvale LAUNGRER TR-1665R - land plane when enorgoing somal recent - DROP MELANAM Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com



3

Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com

2

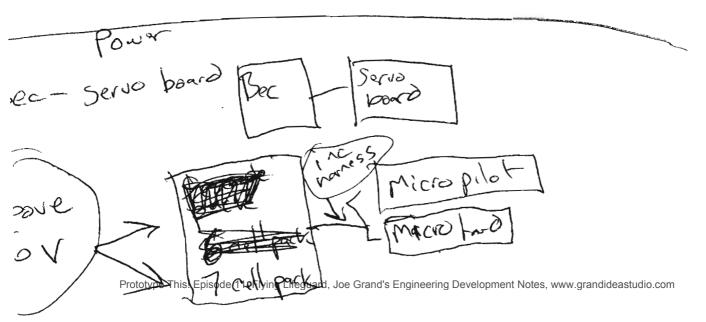
٨

B

I.

Joe > Write program lister for Signal m. A. D=i== tally to hand Send launch to UAU use TCPIP over serial Marzion plugin) -> Astopilot TCPIP Xtender > Jiene Start rocket > Extendor providos APIS Epoche waypoints lister 7Ser 2 Modify larget way point get position from (onpiter Tur on Ely to home Deploy Prigine Shot ENGAGE LAUNCHER

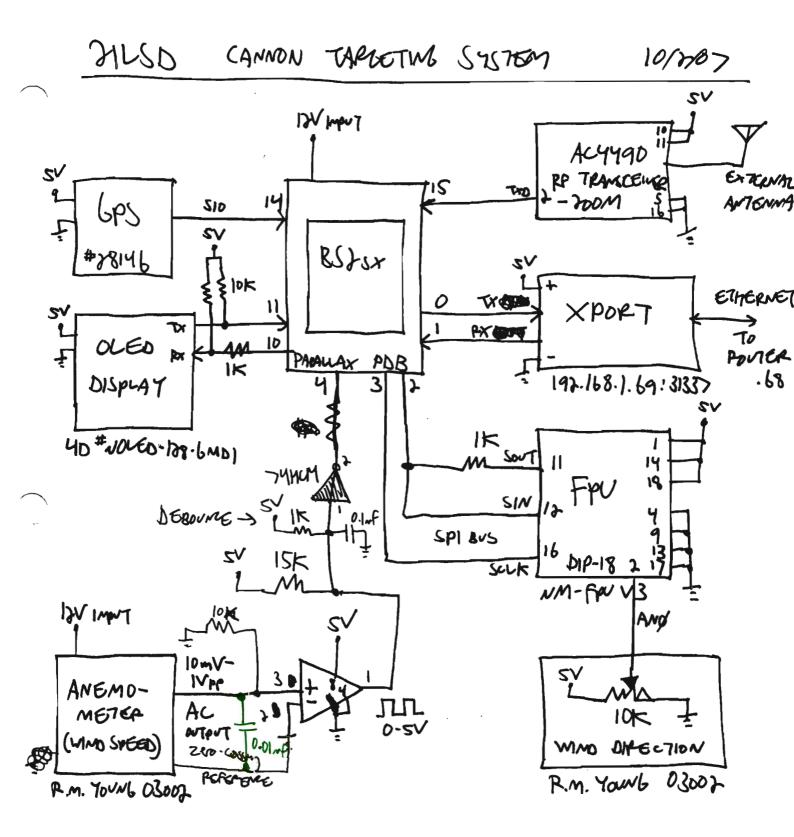
Speed Control - Setup VIS editor OF Sorso Sim.



HST CENTURY LIFESTUR CANNON 9.18.07 - KEEP" ALL WTELLIGENE IN BASE STATION/ CANNON -NO ELECTRONUS IN PAYLOND FOR SIMPLIGY? WARMA, ENABLE/ ARM CANMON THELER/SEMD PATLOAD (MOMEN 749) TREETM 1617 Reo simen (7066LC) SYSTEM SV 0-5 JOP VID ANEMO-LOD METER OPTPEX C-S1847NFQJ-RS2 MMD SPEED LW-AAN DIFECTION GPS (ANA) ARALLAX #28146 RANGE 15 TIMOD DIFECTION ELEMITIO

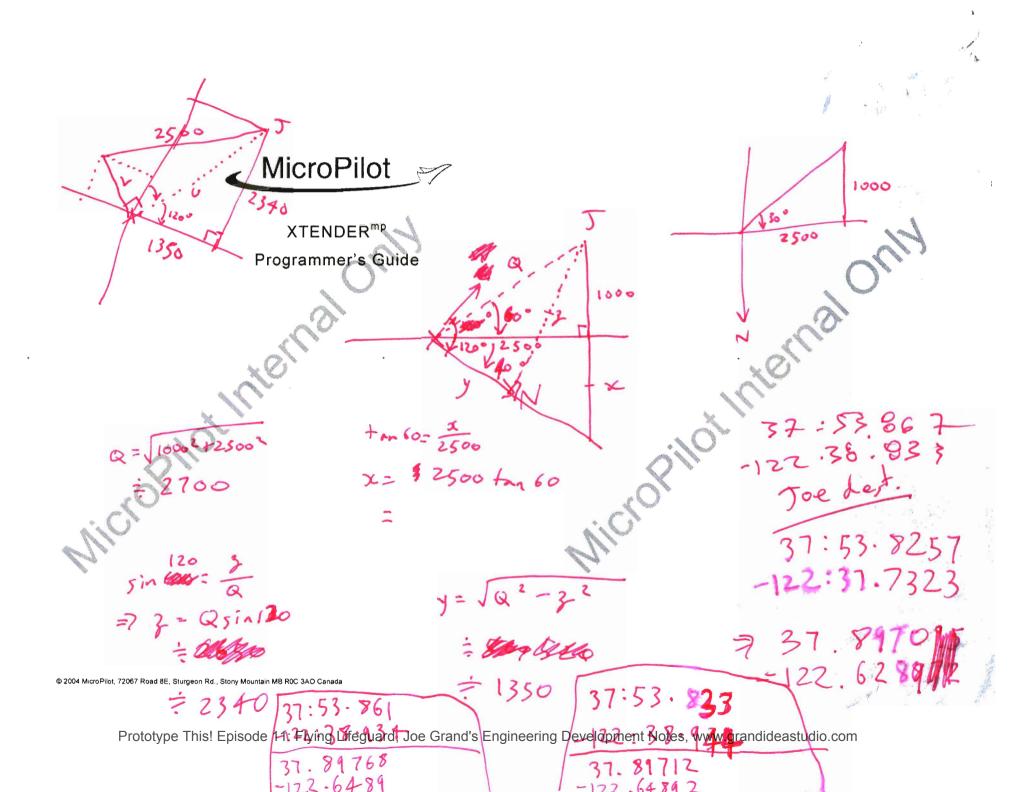
PAN TILT PECENSE PAN TILT PECENSE U/D For medileand 0479 Dr Motor W/ Encoder LINGAL AJAMTOR FITED PRESSURE FERRY'S CONTROL ANTHING FEATH BOARD TO TERRY'S MOTOR SUTPOL

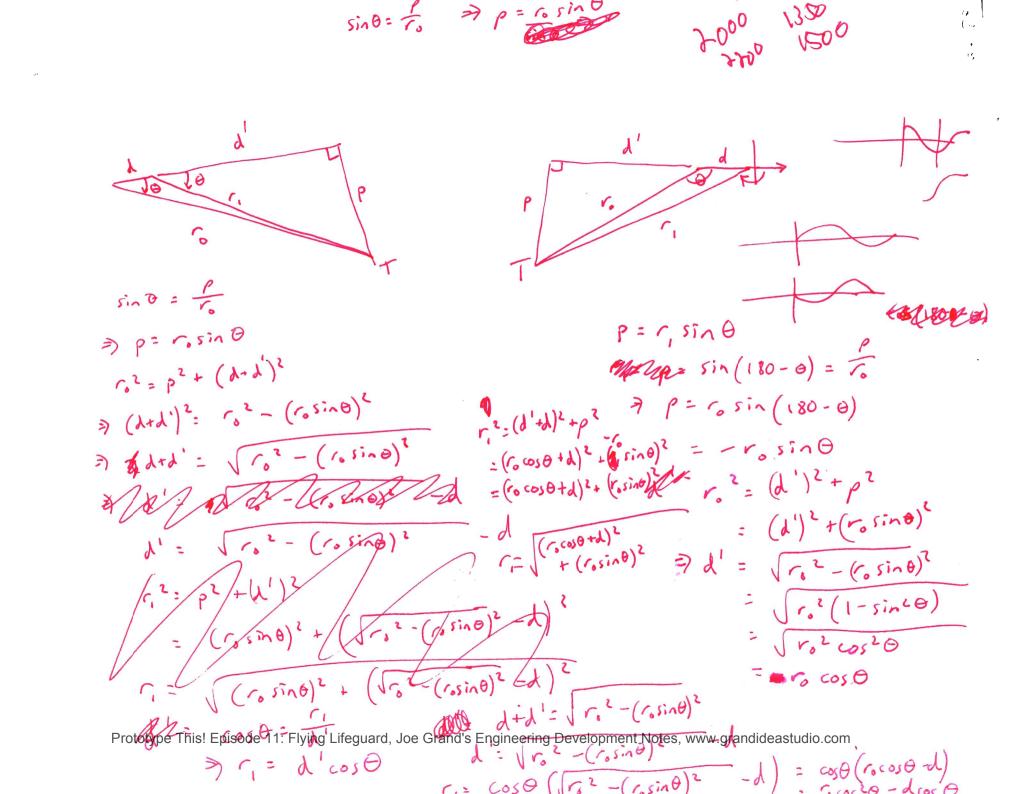
Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com



- heavy place-not chimbing ful enorgy - jet 25-50f7. Mytry of 200f7. x 615 + 6ps for. one pr second - lag five ty petire true is a perition for, placing be part if -lite four prenso regyrent to the vert -uppoint - perpendicular line Kingpoint dimeter - 10F7. -vesto in similates Of the man + of - taget - waitchind to stand. 2513. differnt live the -furger any form lanch --) uppoint of launch point - take antipoto a few shands to tim the starts of the off 3- humm were adoptaled then a Small compared Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com

M.m = D.d \*60 dec. min deg = deg + AM.m 10/22/01 17 (SAG 1,19 0 - 12+ 910 37: 40.9746 37.682 988 LAUNYL KONT! 21.301 50-42 .. -121:18.06852 121.300952 (05) 37.682926 37.682855 37:40.9713 polVT, TAPLE7 21.301002: -121:18.06012 100ft 121,300972 \$7.683119 f 121.301009 150f7 3 - abst wa bent in phy-in 37.683098 I'M GAS reavel RIPS Se 121.301144 4 ple of sems 100 2.683160 - tell you= ntacper pe sion 21.301100 5 epor et Yootz 7.683819 V. center 301100 18 6 27.301003, 37.682432 д 301070 7.683268 -121.300995 Dre (Noth ppm) 40 80 683215 pe This! Episode 1): Flying Lifeguard, be Grand's Engine et in Development Notes, www.grandideastudio.com





tell him it also happing ~ ( whistoma

Chapter 5: Video

Column(s)	Name	Description	and all a
50	body yaw dot	Description Yaw dot in body axis. The first part of the standard and the s	minda
51	correction pitch	The pitch calculated from data other than the gyros and applied to the gyros to correct for drift.	
52	correction roll	Roll calculated from data other than the gyros and applied to the gyros to correct for drift.	
53	dPspeed	Desired àirspeed. (Same as column 47)	J- LOOD?
54	x accelerometer	Desired airspeed. (Same as column 47) X accelerometer Desired heading The heading calculated by the autopilot code: The difference between actual and desired hover X	D mgball
55	dHeading	Desired heading	
56	current heading	The heading calculated by the autopilot code:	
57	hover offset x	The difference between actual and desired hover X coordinate.	waysont? O
58	hover offset y	The difference between actual and desired hover Y coordinate.	
59	compass heading	The heading as calculated by the GPS	
60	correction yaw	The pitch calculated from data other than the gyros and applied to the gyros to correct for drift.	. alla
61	yaw correction over time	······································	L C
62	pitch correction over time	When 17.60013	in the second se
63	FinServo 0	Fine servo value	O. S.
64	FinServo 1	Fine serve value 37.682797 121.3011	
65	FinServo 2	Fine/servo value	
66	FinServo 3	Fine servo value	
67	FinServo 4	Fine servo value	Nor (24)
68	FinServo 5	Fine servo value - 121. 300931	Nº DO
69	FinServo 6		
70	FinServo 7	Fine servo value	,
71	tmpVals	Temporary values	37.682717
72	tmpVals	Temporary values	51.002111
73	tmpVals	Temporary values	0 0 0 0
14	tmpVals	Temporary values	-121.300958
$\frown$	-	Poll from HEADING:	
		- I fem - 20	A second s
MicroF	Pilot Mi	MicroPilot Proprietary: Do not copy 49 Gard Marcage D flym 15	toget money
. 1		And any hours	

- look for mange in 6B Now forget la Nor to usport? Nor usport? 2014 an ernal he) al way S.J. 37.682717 -121.300958

Prototype This! Episode 11: Flying Lifeguard, Joe Grand's Engineering Development Notes, www.grandideastudio.com