



	DATE
	Calculations
Her.	Tet angle can be Found out by:
	0 = tan '(ay) where ay, ax are obtained from accelerometer data.
	(ax)
THE	accelerometer date.
Sterper	
10 C + 10	From Gyroscope, tilt angle over time can be found out.
	can be found out. $0(t) = 0(t_0) + \int Wdt $ t_0
	to
	O From eg? D).
1	4(70)
y	Ocombraed = Ol (Ogyno) + (1-d) (Oarcel).
	& = constant and experimentally
-643	determined
3222	(around 0.98)
	From PID, we get date to adjust motor speeds.
	motor speeds.
	v(t)=Kpe(t) + K; fe(t)dt + Kd de(t)
	of the second se
775	PAGE

DATE
Where, elt) = Odestred - Occurrent.
Kp, ki e kd are gaine (experimental)
Motor speed Calculation. Veyt = Vot U(t) Vright = Vo - U(t).
Vright = V - U(t).
Vo = base speed.
CIRCUIT DIAGRAM.
Imu semon Uttrasonie GPS (e.g., MPU6050) seneore Module
Battery Ve Ardwino Mege Wife Module
Motor Driver 2
Motor Motor
(Left) (Right)
PAGE T