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COURSE ENGR 4020

DATE

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proximity serving

, @ contract - botton, s. mpe 6 most likely officient for this corrse

gidistance sensors (neflective) 1) topiz of today's lecture

LESSON Proximing sersing 1

Distance sensors

10620 object . emily a reference sizual (IR, 1020, ultrasonics etc.) and measures retin signal - intensity of neturn - true of flight

· Important considerations Rosolvina: min chargeindistance the sensor can defect update rate: readings pouse cond Ragge: distance min to max for occumbe readings

Interfacion: Type of connection, non rung pins I'm two pins as water how my cersors sit is a gin per dense Annly?

Tech wiogres

Q LEDS - we use here -good resolution

- cheap
- 11000 2 -- interfacing
- high conject consupprison
- low nox ruge

@ LIDAR - laser snakes

- -excellent max range lresolutions
- -very histoplaterage
- -expersive
- high correct down
- 2) ultrasoniz sound - low cometation
 - multiple interface ophins
 - ron terophylas
 - -show retrest
 - relatively low Max rough

· Each of these is 10 in this sense

is can get 20 or 30 Lu some Sersons CLIDAR

4 For is limited on hose sensors

- y aughtneed owner option it we want to detect actual objects and not "obstacles"
- 1) can roke a 10 sensor 20 by mounting to rotational position control and duta pro wssim

DEX: correct IR sensor to power supply and multimeter and get distance measurents Uuse data shet, 5V

4-30 cm 1) per turm experients to get approx conversion between voltage and disture

is coment to me and test it you have time