## More Motor control

o Last time, me sum how to use an H-bodge to dove the notor Farmed and backward

is unfortuntely, we had no may to control Spainer

is we saw two lectures ago that we can a condo notors with pulsad

Whe can use a method alled pulse width modulation to implement Speed control of motors

o we could use the logistavis, but he Nucleone are using only has 2 DALS, not great for this!

Signals MWG Tourd

- by changing the period, the average value in be changed · Duty cycle = ton X100% = D

converge value can be found by getting a Longers filter lot 2 mys

VOUT RCRITE "Two powery benefits
is cased to send DC 5, 3nds to s my (port availability) ly signals are still digital, so you can send between devices easily

## Mbed API Functions for pun

pun object PUMOCT ortpotaluty cycle 0-0 to 1.0 (=10) slow connect settings f promort rend (2) float] period [ms, int] pend-ms - [Ms, Not] 50 - Perios

pulseurslich pulsement in se Edads prisewid m.ms 7 xi c 2m 1, wg pulse will mus p.w. N ills, int

DEX: rodity your program from last time to use pull instead of digital outputz

DEX: key lerms: # include "mbed.h" PWM OUT PUM (DZ) int munich & pum. period(0.010)//10-5 anile (1) { pun= 0.2) //20% 2 ory cycle