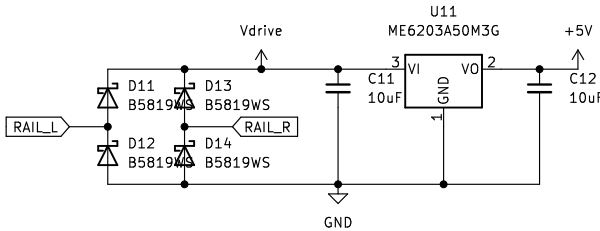
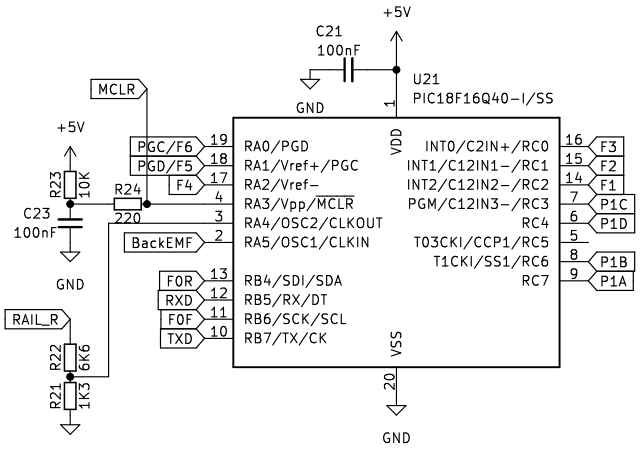
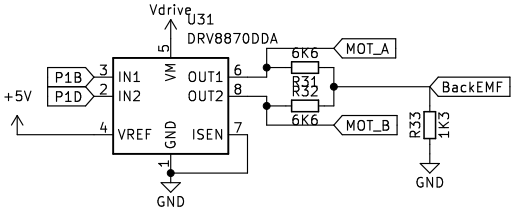


Rail power is fed into a bridge rectifier to generate 6–30V DC which is referenced as Vdrive.
An AMS1117 5V Linear Regulator generates power for the micro-controller.

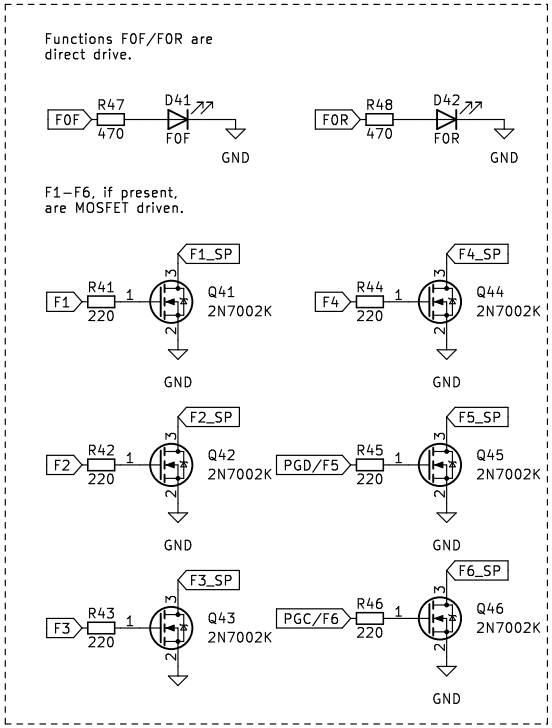


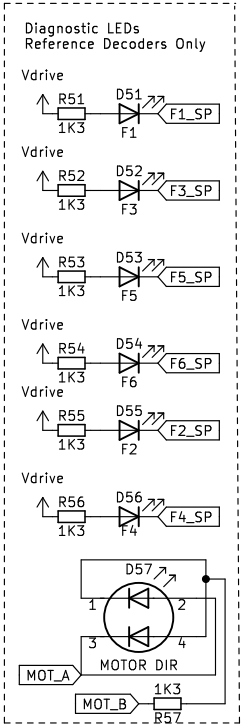
The uC provides all control logic.
Supporting compontents include a decoupling capacitor, hold up on MCLR, and an ICSP programming header.

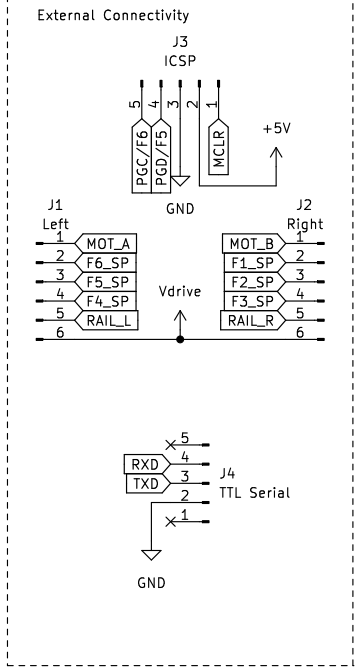
For info on motor driving, see:
http://www.ermicro.com/blog/?p=706

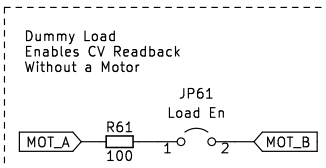


A Texas Instruments DRV8880DDA motor-driver IC provides an integrated H-Bridge, overload protection, and a much smaller form factor than discrete components.









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