There are a lot of old information floating around on internet on how the ports are configured and on how to connect the Arduino CNC Shield to a DIY X/Y/Z-axis gantry.

As the software is set up to (default) compile today there are discrepancies to what comes out from the Arduino Uno and the screenprint on the Arduino CNC Shield so this is how I connected my Endurance 10W DeLuxe laser to a Protoneer Arduino CNC Shield v:3.00 as of today:

The pins marked "**END STOPS Z+**" and "**Z-**" both provide the **PWM signal**.

The pin marked "**SpnEx**" is the "**Z END STOP**" input.

Finally, a note for a future release of this paper:
By default the pin marked "**SpnDir**" goes high the controller recieves an "M3" (motor on) command so it can be used to replace the laser on switch using a relay rather than the switch on the laser control box.