1. Microcontroller circuit

* Atmega328
* UART connector (5V, RXD, TXD, GND)
* I2C connector (5V, SDA, SCL, GND)
* SPI connector (5V, RST, MOSI, MISO, SCK, GND)
* KEYS (pull down buttons/connectors)
* 16x4 LCD display (wire mounted with all connections on pcb)
* CLOCK circuit
* RESET circuit
* POWER circuit

1. H-bridge driver
2. Current measurements using IV converter

*h-bridge -> bottom mosfet’s source combined and connected to shunt resistor*