

SRA Board



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Ty electronics.

• SRA Board 2020 :-

Compare to last year (2019) SRA Board, there are some changes made to the board design. All the changes are mentioned in this pdf in greater detailed.

◦ SRA Board 2019 Design

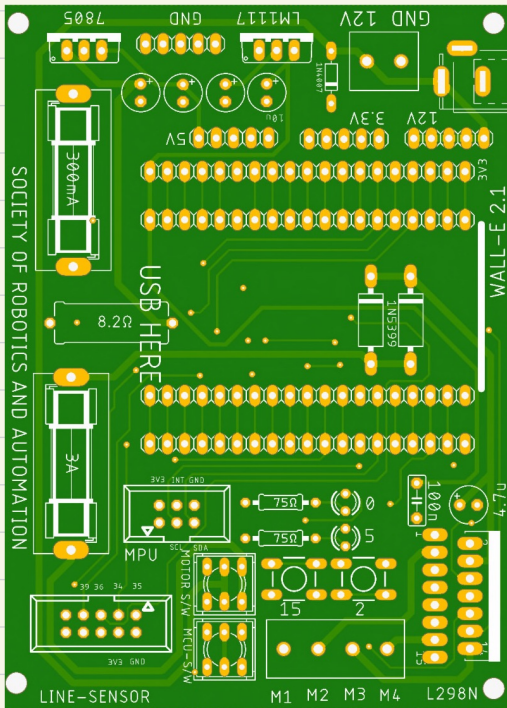


Fig1

◦ SRA Board 2020 Design

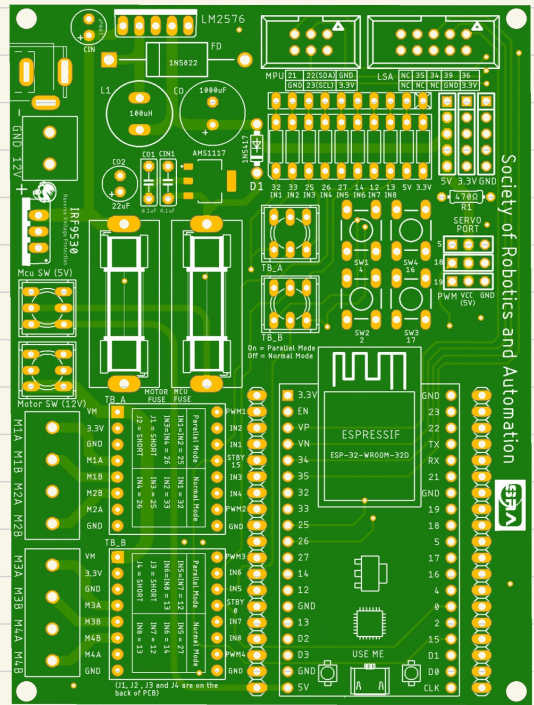


Fig 2.

- Background Info of SRA Board 2019:—

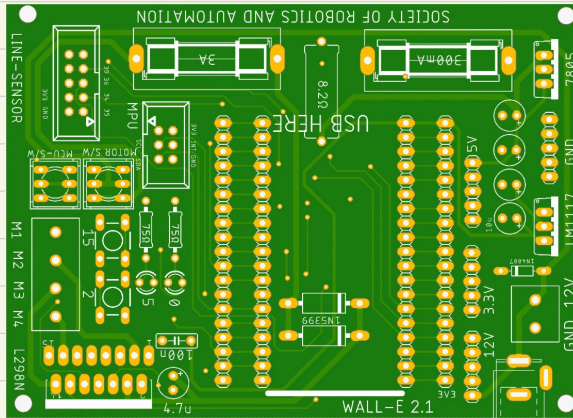


Fig 3

* Every development Board Consist of following things:

- Port for sensor
- Motor Driver to drive the motors.
- Overcurrent protection for microcontroller and other circuitry.
- Programmable switches and leds.
- Reverse Voltage protection.
- Power on/off switch.

• Some of the Major changes made in new design:-

- 1) 7805 - 5V regulator replaced by LM2596 Buck.
- 2) Less efficient L298N replaced by mosfet based TB6612FNG.
- 3) 4 channels for motors instead of 2 motor channels in previous version.
- 4) Bar graph led, Servo Port etc.