

# 16681: MRSD Project 1 / Task 11 PDS – SCH Submission

Team: H

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## Analysis

**State the efficiency regulators**

- Formula for Efficiency:  $[1 - ((V_{in} - V_{out})/(V_{in}))] \times 100\%$

Part	V <sub>in</sub>	V <sub>out</sub>	Efficiency
LM2596T-5.0/LF03	12V	5V	41.67%

## Updates to concept

- Change Arduino Uno to NodeMCU
- Removed ESP-01 since NodeMCU has inbuilt Wi-Fi chip
- Added 12V supply for Dynamixel.

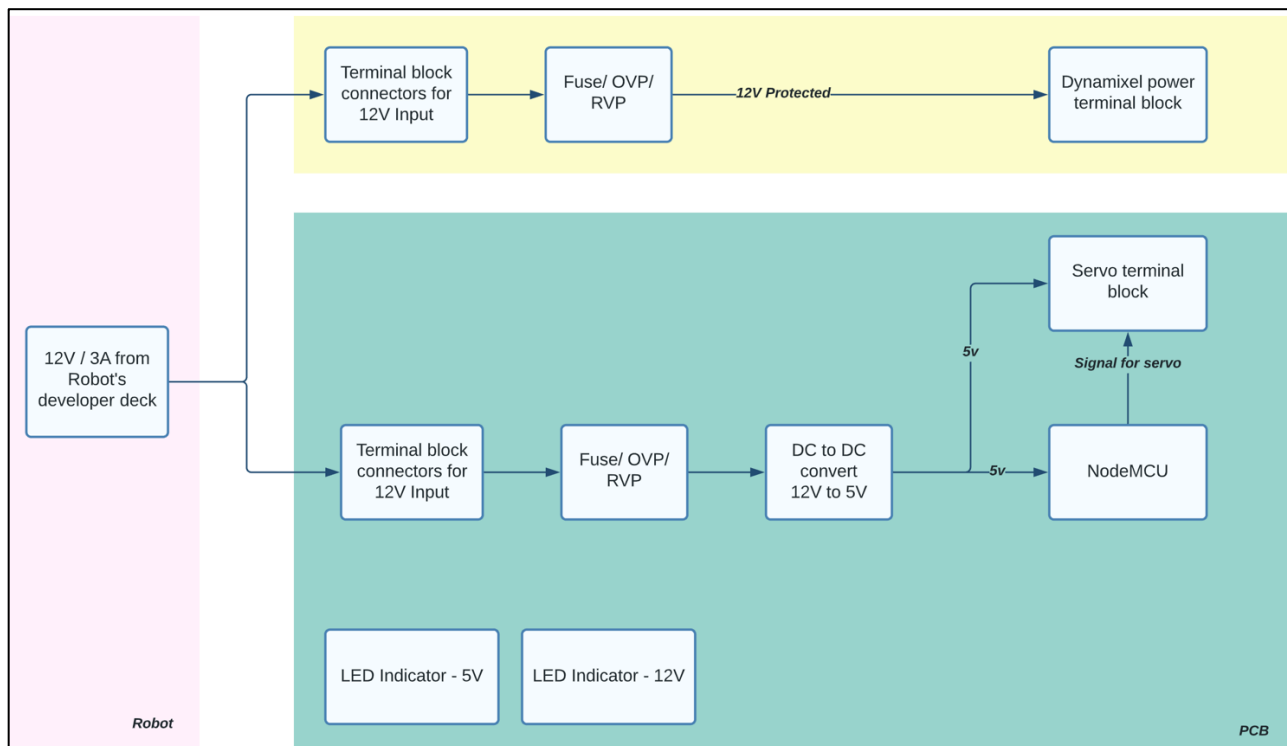


Figure: Updated PCB concept with RVP 12V for Dynamixel