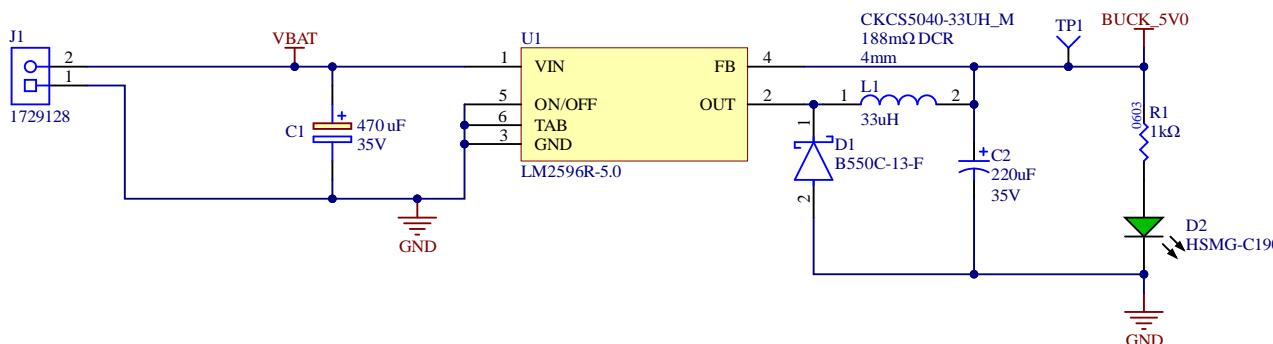


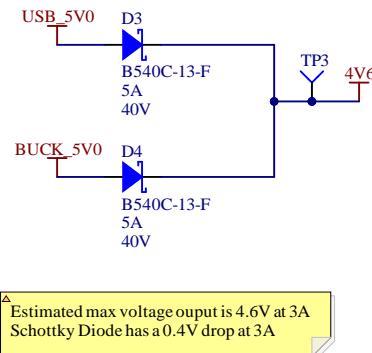
Power Conversions

External Power Input
VBAT input range is 12V to 24V

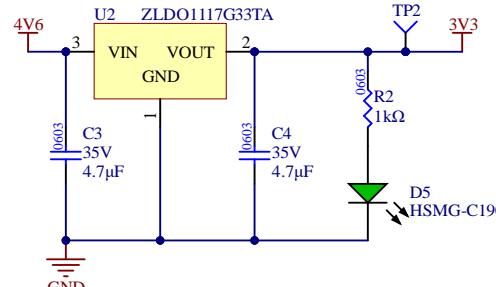
VBAT to 5V 3A Buck



2 Power Sources Protection



5V to 3.3V 1A LDO



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Waterloo, Ontario, Canada
N2L 3G1

REV
1

PROJECT
LED Controller.PnjPcb, [No Variations]

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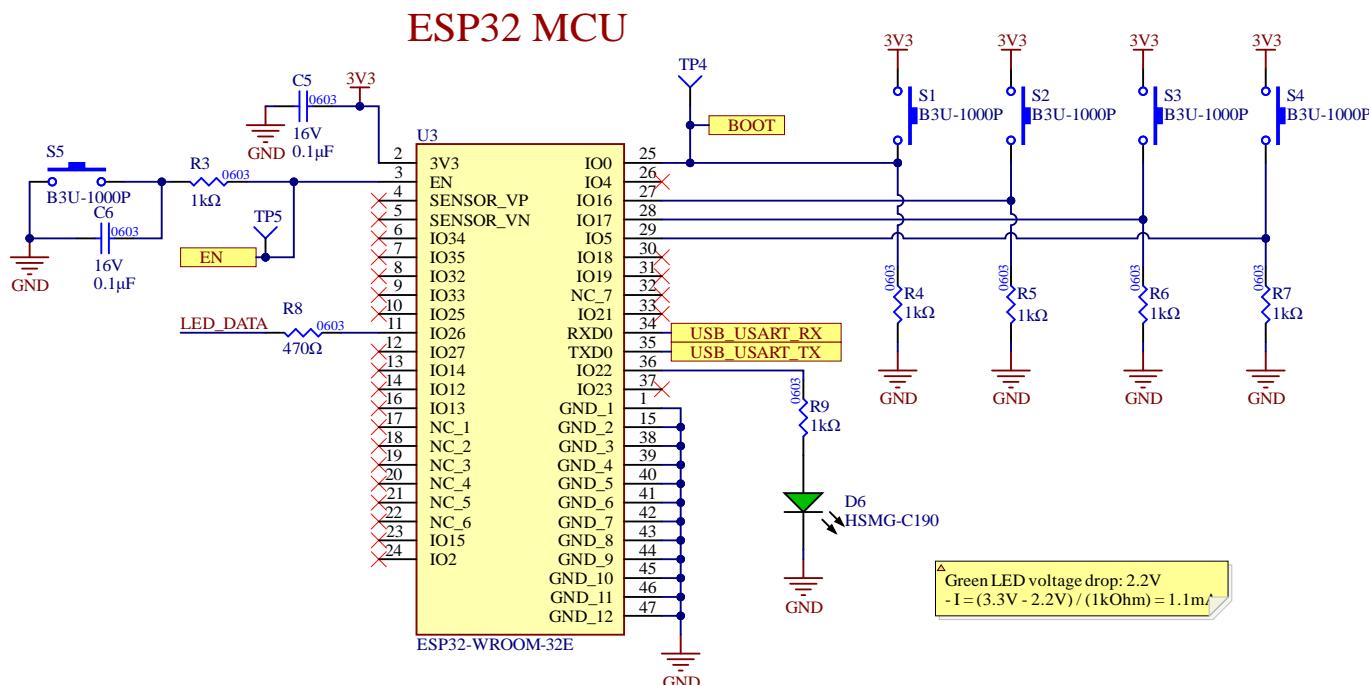
DOCUMENT
Power.SchDoc

ENGINEER
Ari Wasch

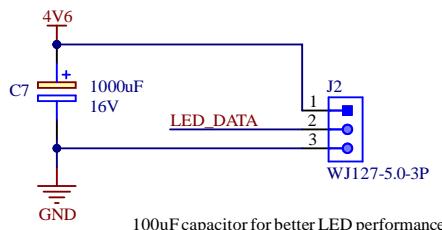
REVIEWER
*

SHEET 1 OF 3

MCU



LED STRIP CONNECTOR



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REV 1

PROJECT
LED Controller.Pjcb, [No Variations]

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DOCUMENT
MCU.SchDoc

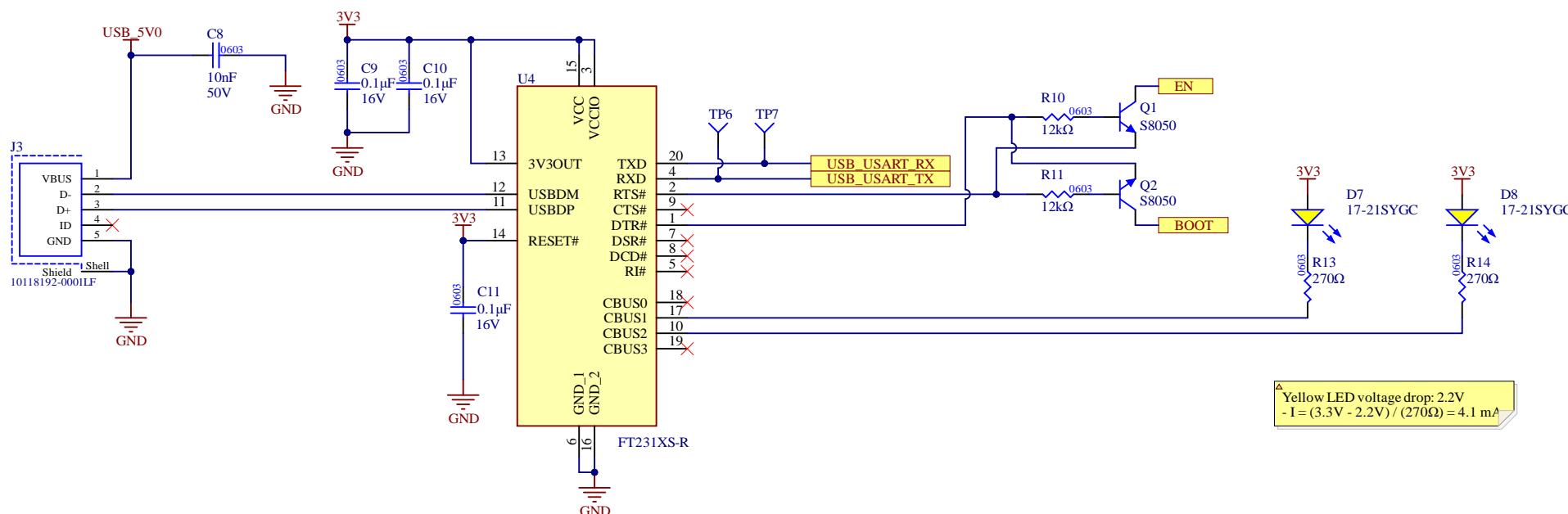
ENGINEER
Ari Wasch

REVIEWER
*

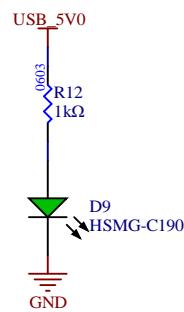
SHEET 2 OF 3

USB

A



B



C

ROBOTICS TEAM University of Waterloo Robotics Team 200 University Ave W Waterloo, Ontario, Canada N2L 3G1		REV 1
PROJECT LED Controller.PjPcb, [No Variations]		
DOCUMENT USB.SchDoc		MODIFIED 8/4/2021
ENGINEER Ari Wasch	REVIEWER Lance Bantoto	SHEET 3 OF 3