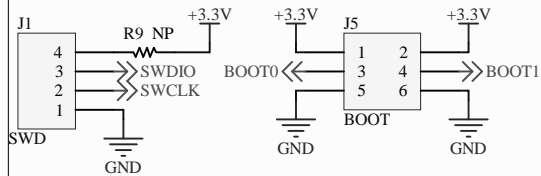
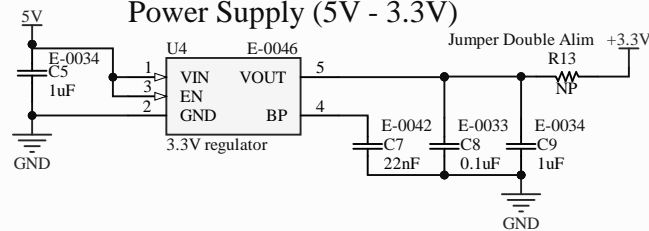




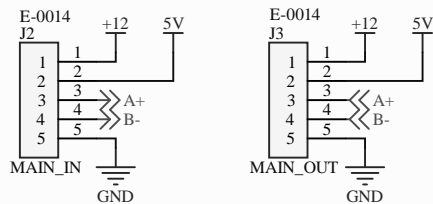
## Programming



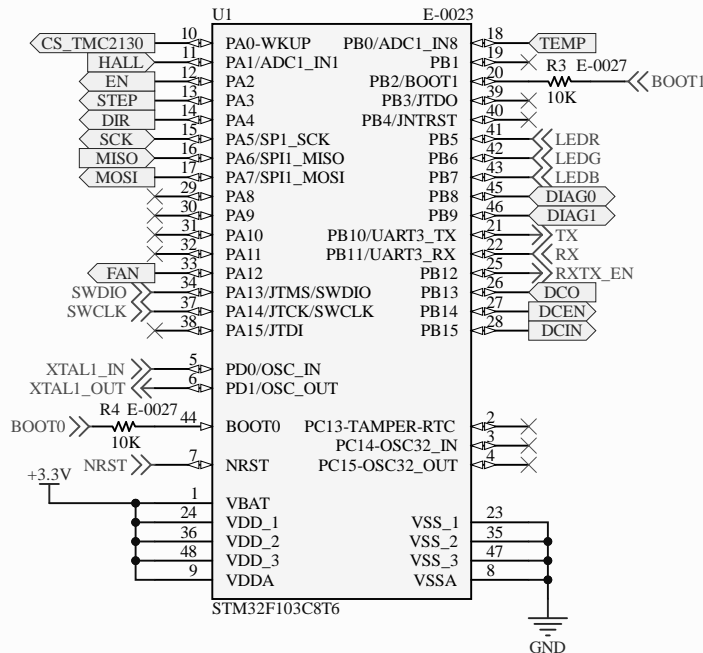
## Power Supply (5V - 3.3V)



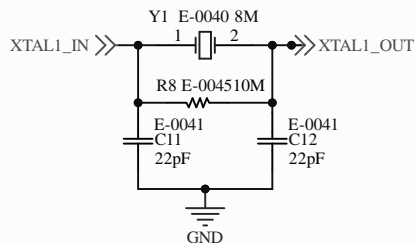
## Main Connector



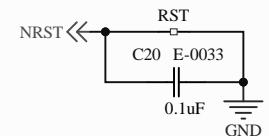
## Microcontroller



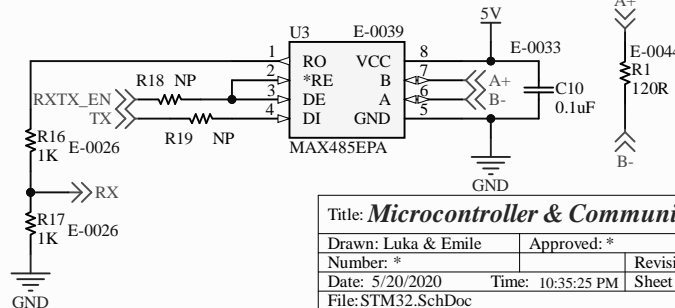
## Crystal



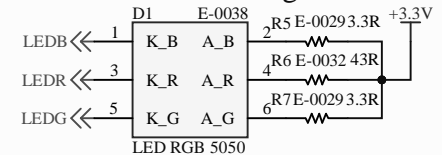
## RESET



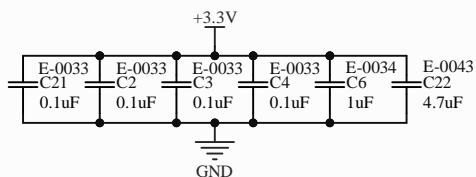
## RS-485 Transceiver



## LED RGB Debug



## Filtration



Title: **Microcontroller & Communication**

Drawn: Luka & Emile

Approved: \*

Number: \*

Revision: 0.1

Date: 5/20/2020

Time: 10:35:25 PM

Sheet 1 of 2

File: STM32.SchDoc

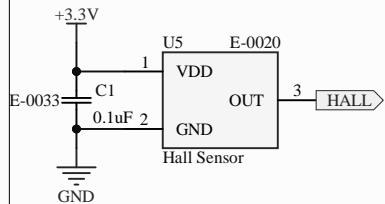
Technologie de l'électronique

[www.cegeplimoilou.ca](http://www.cegeplimoilou.ca)

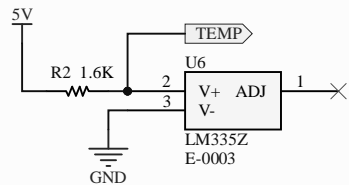


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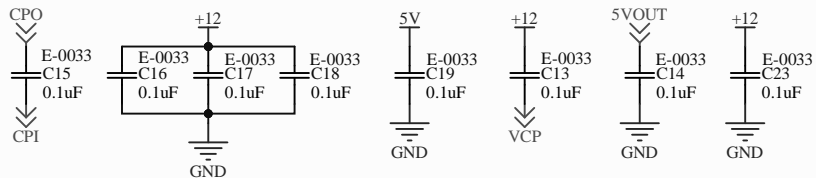
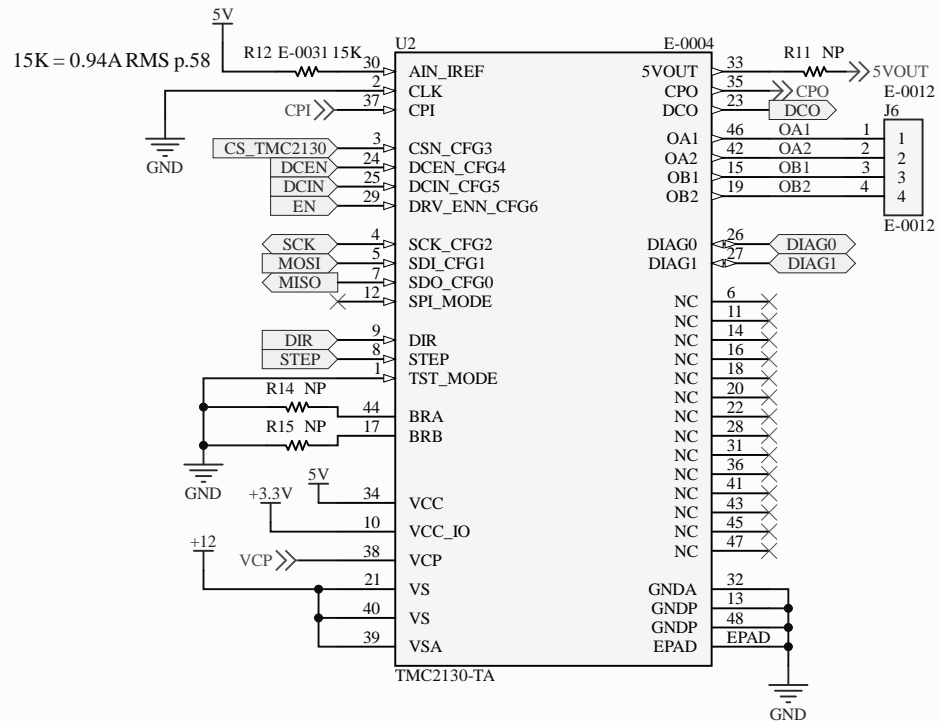
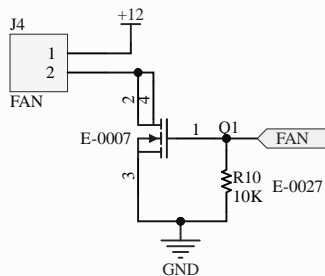
## Hall Sensor



## Temperature Sensor



## Fan Control

Title: **Motor Driver & Sensors**

Drawn: Luka &amp; Emile

Approved: \*

Number: \*

Revision: 0.1

Date: 5/20/2020

Time: 10:35:25 PM

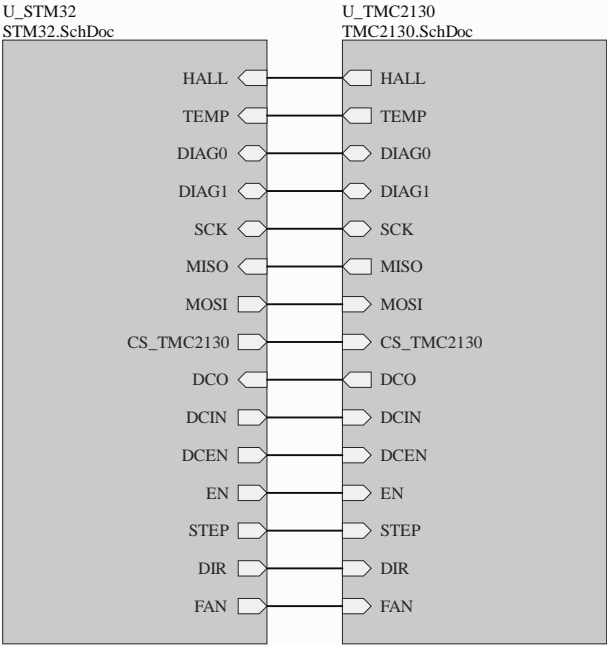
Sheet 2 of 2

File: TMC2130.SchDoc

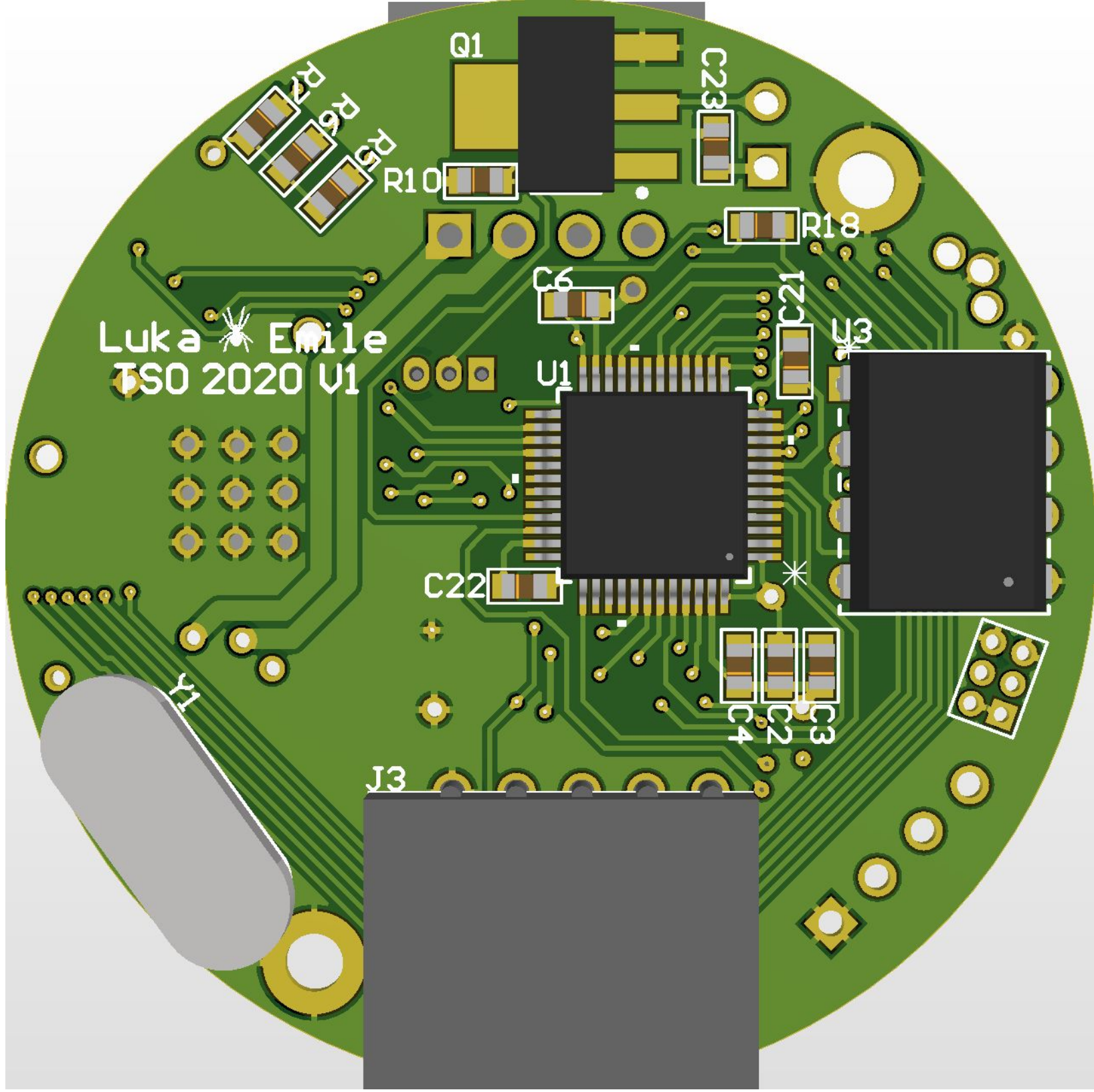
Technologie de l'électronique

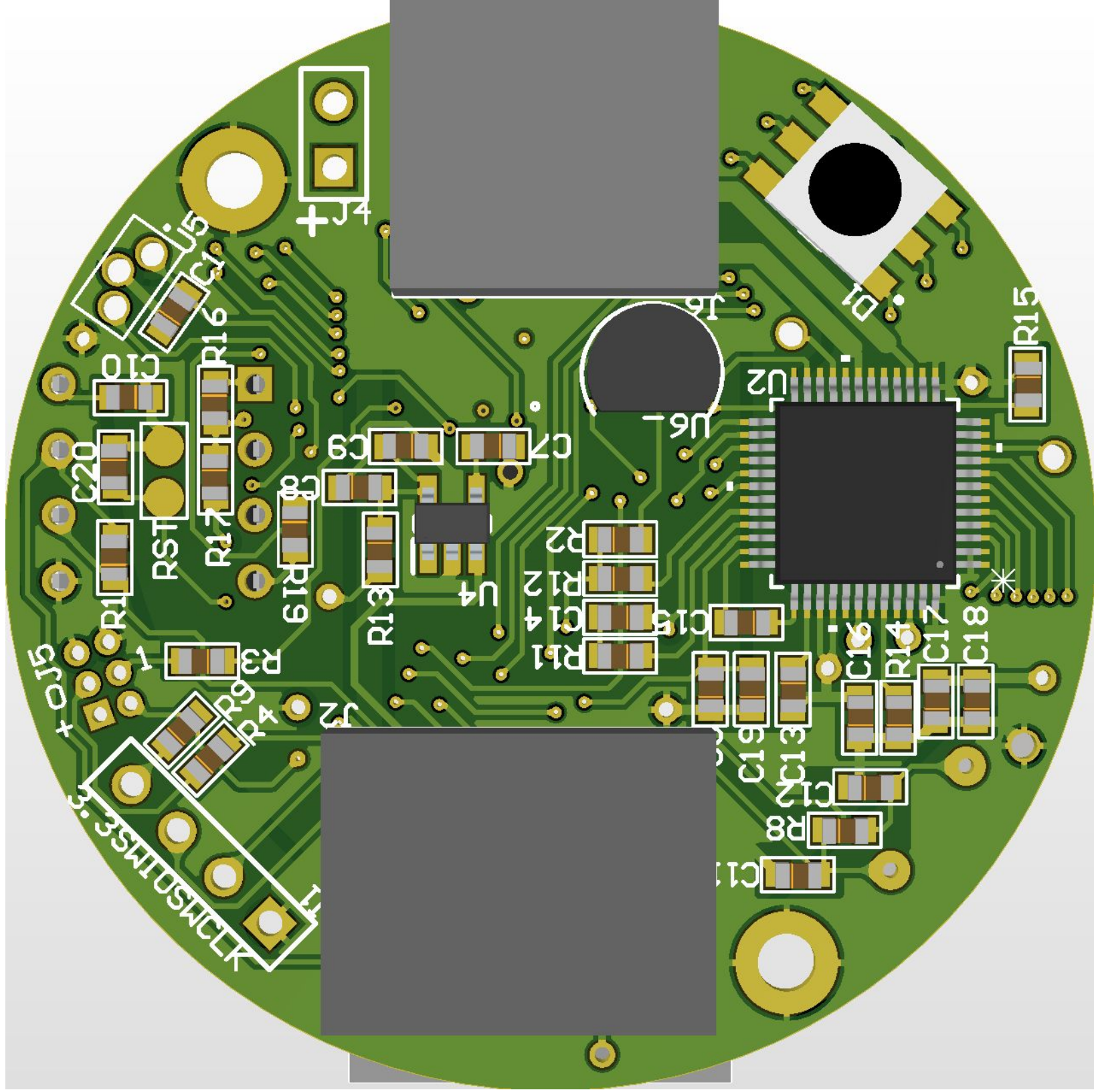
[www.cegeplimoilou.ca](http://www.cegeplimoilou.ca)

Size: Letter

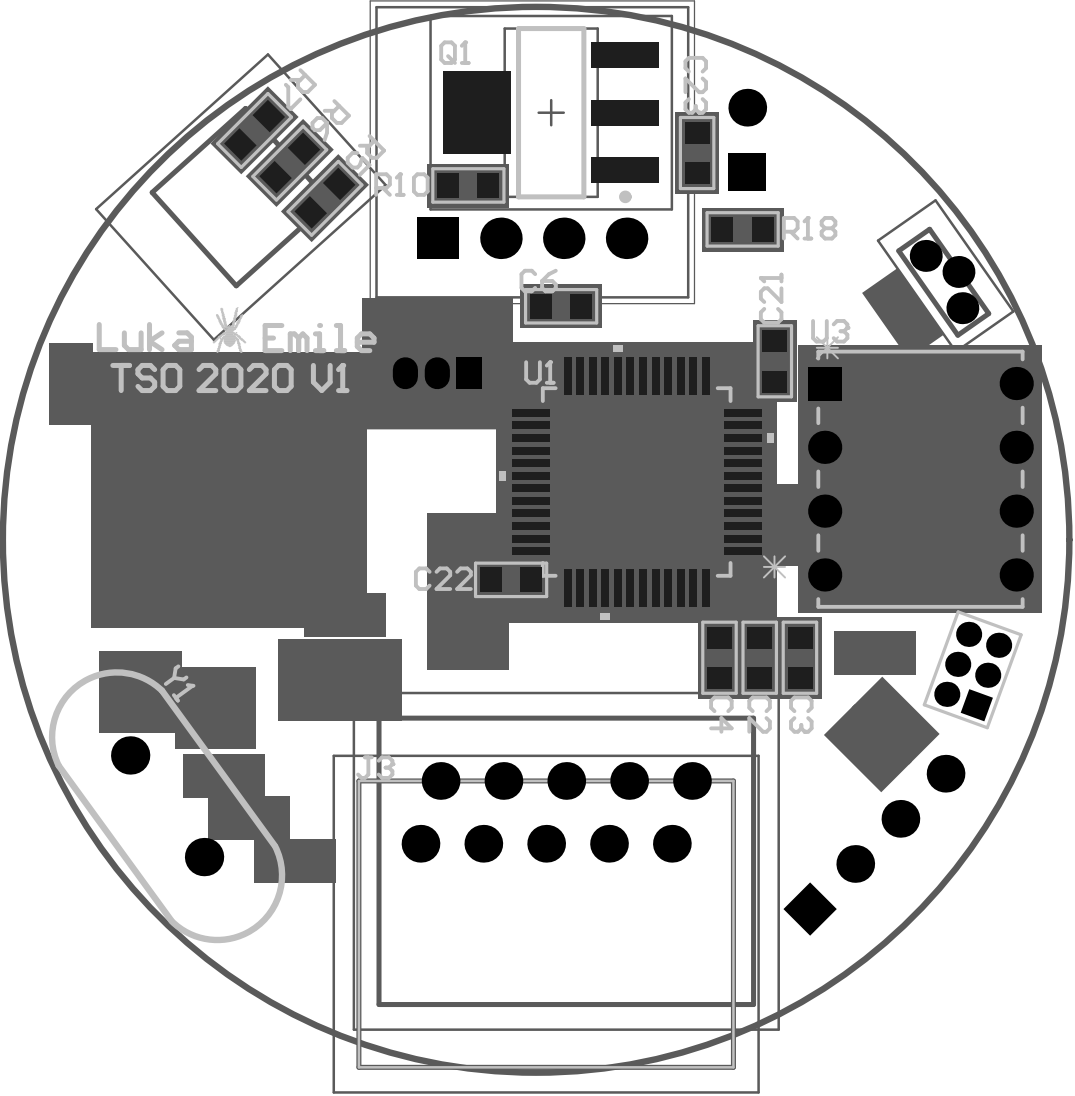


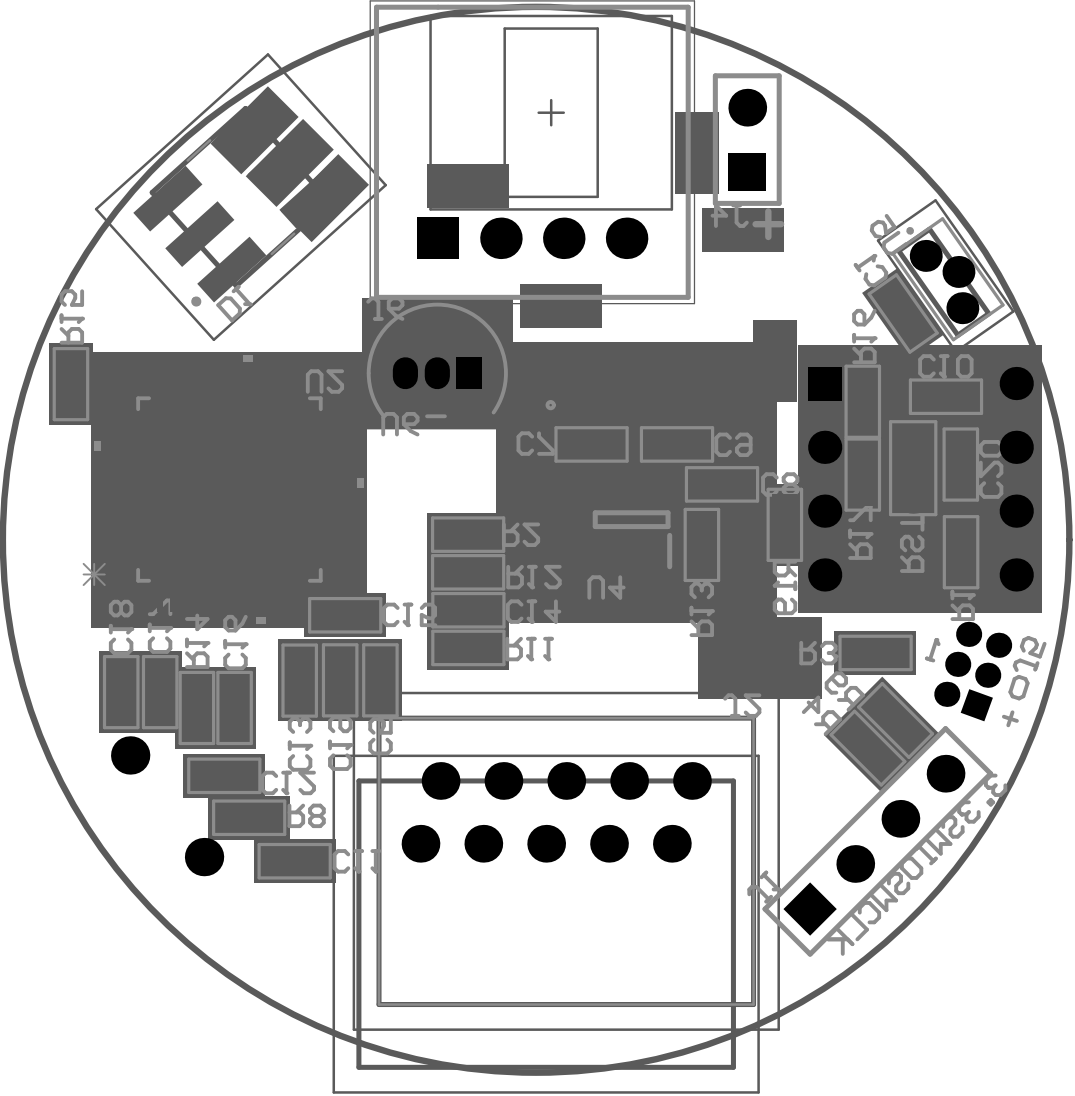
Title		
Size	Number	Revision
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Date: 5/20/2020		Sheet of
File: C:\Users\...\Top.SchDoc		Drawn By:













## Design Rules Verification Report

Filename : C:\Users\Emile\6DOF-Robotic-Arm\Electronic\PCB\Motor Driver\Motor Driver\PCB1

Warnings 0  
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.2mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ( All )	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.229mm) (Max=0.8mm) (Preferred=0.8mm) (InNet('OA1') or InNet('OA2') or InNet('OB1') or	0
Width Constraint (Min=0.2mm) (Max=0.4mm) (Preferred=0.4mm) (InNet('+12') or InNet('GND') or InNet('5V'))	0
Width Constraint (Min=0.2mm) (Max=0.2mm) (Preferred=0.2mm) (All)	0
Power Plane Connect Rule(Relief Connect )(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.025mm) (Max=2.9mm) (Disabled)(All)	0
Hole To Hole Clearance (Gap=0.254mm) (Disabled)(All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Preferred=12.7mm) (All)	0
Total	0