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Thymio2 Project

PCB principal

PROG3 12
VBAT 14
VPCC 2
VSS 10
EP 21
IN 18
PG 6
SEL 3
STAT1/LBO 8
TE 9
VBAT_SNS 16
OUT 20
VPCC

USB-power.SchDoc

Date: 09.10.2012 15:46:55
Revision: 1.6
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Laboratoire de Systèmes Robotiques
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EPFL
CH-1015 LAUSANNE

Power good (on when power on plug) no led
stat1 when charging red led
stat2 when charge finished green led
VPCC limit at 4.55V

300mA max
1x pic24F = 24 mA
13x led 20mA = 260mA
1 MMA7660 = 47uA
3 shift register 160uA = 0.48mA
Thymio2
Project: thymio2-main.PrjPCB
Part: Thymio2
PCB: PCB principal

Date: 09.10.2012
Revision: 1.6
Page 5 of 9

Laboratoire de Systèmes Robotiques
The diagram shows a circuit design for a robot's LED and other components. Here are some key details:

- **LEDs**: There are multiple LEDs labeled for various functions, such as '3 side led green batery', '1 RGB top all robot', and '2 side led red sensors'.
- **ICs and Chips**: The circuit includes several integrated circuits (ICs) and chips like the MC74HC595ADTR2, which is a shift register.
- **Connectors**: Various connectors and pins such as SDI, SFTCLK, and LCHCLK are shown, indicating data and clock signals.
- **Power Supply**: Components like VCC and GND are connected to provide power to the circuit.

The schematic is part of a project named 'thymio2-main.PrjPCB' and is related to the Laboratoire de Systèmes Robotiques at EPFL.
<table>
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<th>Quantity</th>
<th>Comment</th>
<th>Lib Ref</th>
<th>Designator</th>
<th>Description</th>
<th>Footprint</th>
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<td>M o t o r c o n n e c t o r 8940 0-0220</td>
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<td>General Kind B A T -2</td>
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<tr>
<td>1</td>
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<td>894 -A S /B /C</td>
<td>Motor</td>
<td>Generic Kind B A T -2</td>
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<tr>
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</tr>
</tbody>
</table>

**Notes:**
- Quantity: 1
- Comment: 
- Lib Ref: 
- Designator: 
- Description: 
- Footprint: 

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**Additional Details:**

- **Motor:** General Kind B A T -2
- **894 -A S /B /C:** Motor
- **Generic Kind B A T -2:** Motor
- **Generic Kind B A T -2:** Motor
- **Generic Kind B A T -2:** Motor
- **Generic Kind B A T -2:** Motor
- **Generic Kind B A T -2:** Motor
- **Generic Kind B A T -2:** Motor

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**Notes:**
- Additional motor specifications and details can be found within the provided image.