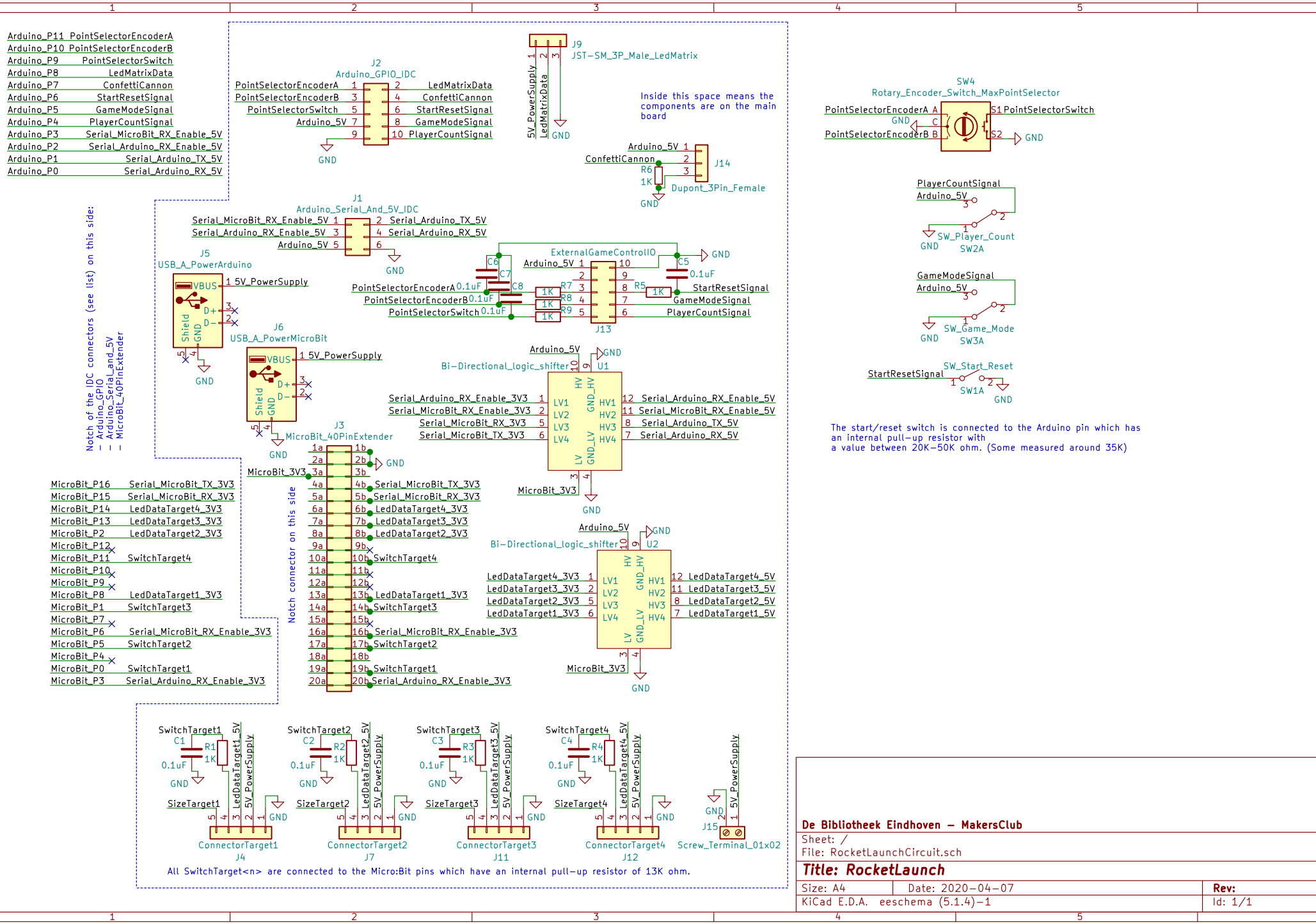
Arduino_P11 PointSelectorEncoderA
Arduino_P10 PointSelectorEncoderB
Arduino_P9 PointSelectorSwitch
Arduino_P8 LedMatrixData
Arduino_P7 ConfettiCannon
Arduino_P6 StartResetSignal
Arduino_P5 GameModeSignal
Arduino_P4 PlayerCountSignal
Arduino_P3 Serial_MicroBit_RX_Enable_5V
Arduino_P2 Serial_Arduino_RX_Enable_5V
Arduino_P1 Serial_Arduino_TX_5V
Arduino_P0 Serial_Arduino_RX_5V
Notch of the IDC connectors (see list) on this side:
- Arduino_GPIO
- Arduino_Serial_and_5V
- MicroBit_40PinExtender
J2
Arduino_GPIO_IDC
PointSelectorEncoderA
PointSelectorEncoderB
PointSelectorSwitch
Arduino_5V
LedMatrixData
ConfettiCannon
StartResetSignal
GameModeSignal
PlayerCountSignal
GND
J9
JST-SM_3P_Male_LedMatrix
5V_PowerSupply
LedMatrixData
GND
Inside this space means the components are on the main board
J14
Dupont_3Pin_Female
R6
1K
J1
Arduino_Serial_And_5V_IDC
Serial_MicroBit_RX_Enable_5V
Serial_Arduino_RX_Enable_5V
Arduino_5V
Serial_Arduino_TX_5V
Serial_Arduino_RX_5V
J5
USB_A_PowerArduino
VBUS
D+
D-
Shield
GND
5V_PowerSupply
J6
USB_A_PowerMicroBit
ExternalGameControlIO
J13
C5
0.1uF
R5
R7
R8
R9
J3
MicroBit_40PinExtender
Notch connector on this side
MicroBit_3V3
MicroBit_P16 Serial_MicroBit_TX_3V3
MicroBit_P15 Serial_MicroBit_RX_3V3
MicroBit_P14 LedDataTarget4_3V3
MicroBit_P13 LedDataTarget3_3V3
MicroBit_P2 LedDataTarget2_3V3
MicroBit_P12
MicroBit_P11 SwitchTarget4
MicroBit_P10
MicroBit_P9
MicroBit_P8 LedDataTarget1_3V3
MicroBit_P1 SwitchTarget3
MicroBit_P7
MicroBit_P6 Serial_MicroBit_RX_Enable_3V3
MicroBit_P5 SwitchTarget2
MicroBit_P4
MicroBit_P0 SwitchTarget1
MicroBit_P3 Serial_Arduino_RX_Enable_3V3
Bi-Directional_logic_shifter
U1
Serial_Arduino_RX_Enable_3V3
Serial_MicroBit_RX_Enable_3V3
Serial_MicroBit_RX_3V3
Serial_MicroBit_TX_3V3
Serial_Arduino_RX_Enable_5V
Serial_MicroBit_RX_Enable_5V
Serial_Arduino_TX_5V
Serial_Arduino_RX_5V
U2
LedDataTarget4_3V3
LedDataTarget3_3V3
LedDataTarget2_3V3
LedDataTarget1_3V3
LedDataTarget4_5V
LedDataTarget3_5V
LedDataTarget2_5V
LedDataTarget1_5V
SwitchTarget1
SwitchTarget2
SwitchTarget3
SwitchTarget4
SizeTarget1
SizeTarget2
SizeTarget3
SizeTarget4
ConnectorTarget1
ConnectorTarget2
ConnectorTarget3
ConnectorTarget4
J4
J7
J11
J12
J15
Screw_Terminal_01x02
All SwitchTarget<n> are connected to the Micro:Bit pins which have an internal pull-up resistor of 13K ohm.
SW4
Rotary_Encoder_Switch_MaxPointSelector
PointSelectorSwitch
SW_Player_Count
SW2A
SW_Game_Mode
SW3A
SW_Start_Reset
SW1A
The start/reset switch is connected to the Arduino pin which has an internal pull-up resistor with a value between 20K-50K ohm. (Some measured around 35K)
De Bibliotheek Eindhoven - MakersClub
Sheet: /
File: RocketLaunchCircuit.sch
Title: RocketLaunch
Size: A4
Date: 2020-04-07
Rev:
KiCad E.D.A. eeschema (5.1.4)-1
Id: 1/1