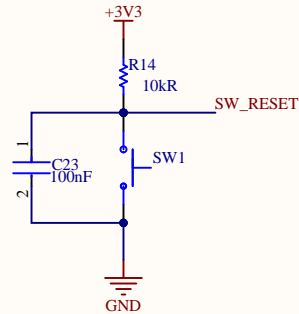
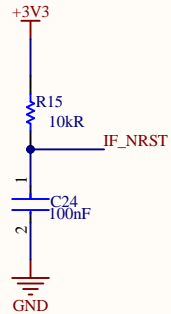
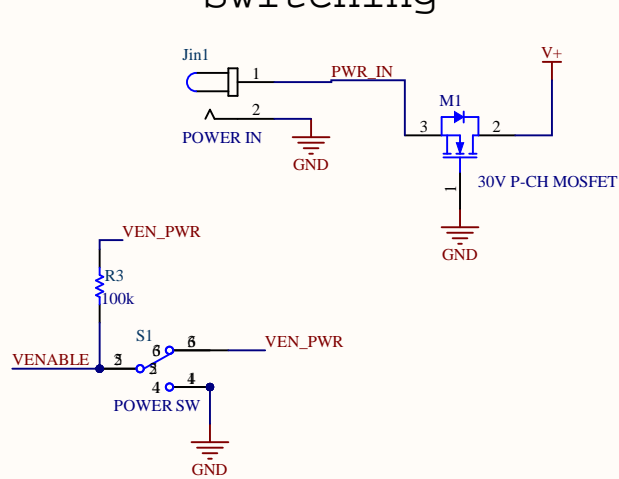
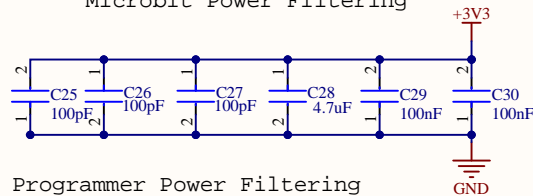


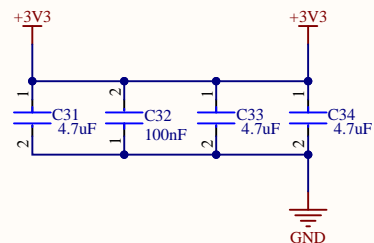
Switching



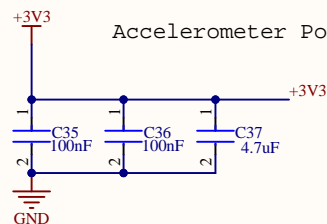
Microbit Power Filtering



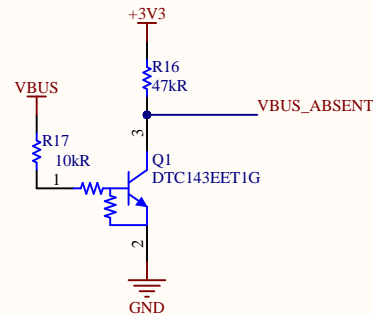
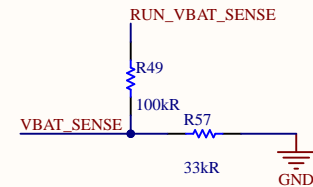
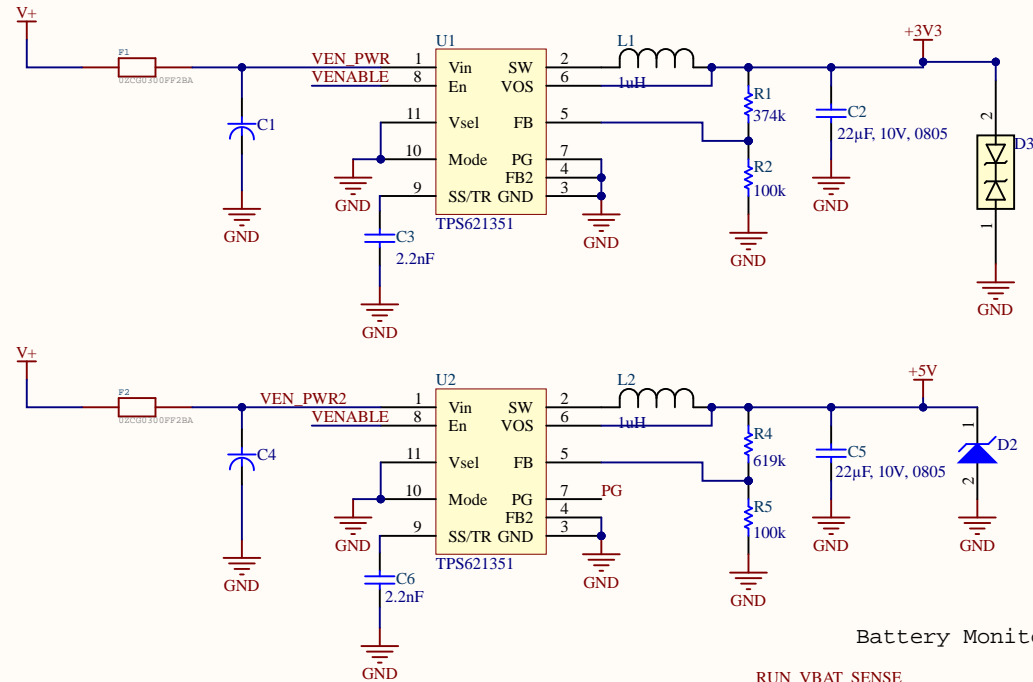
Programmer Power Filtering




Accelerometer Power Filtering

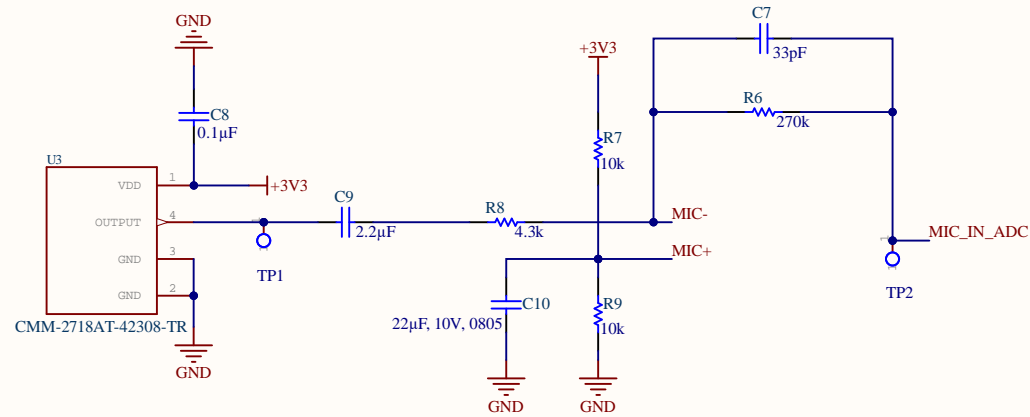


DC-DC Converter

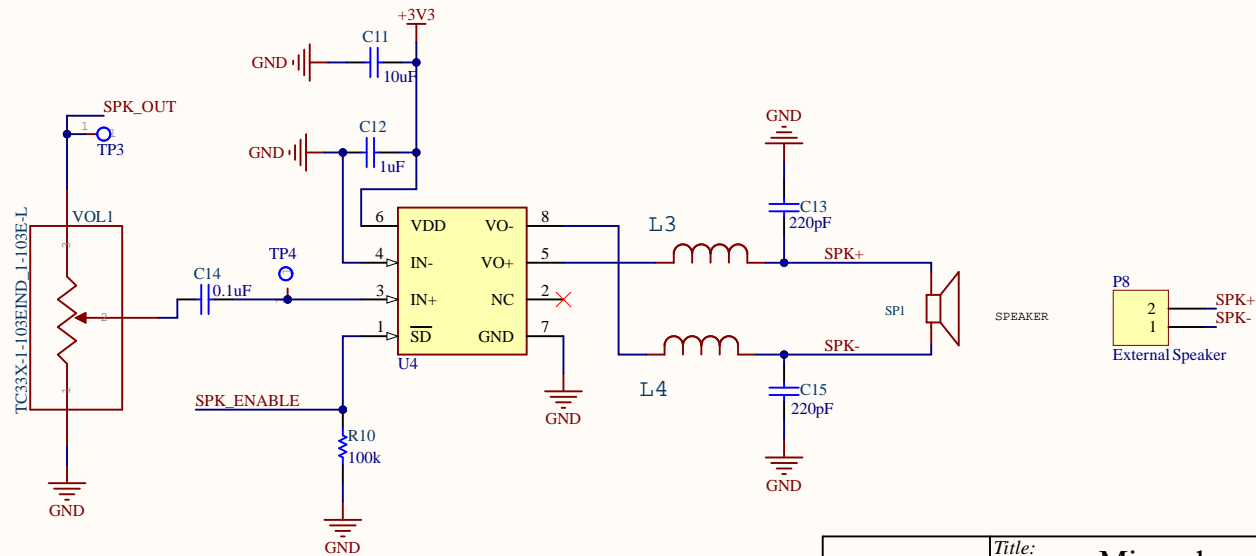


| | | |
|---|--|----------------|
|  | Title: Power | |
| | Electrical and Computer Engineering University of New Brunswick | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 1 of 12 |
| Filename: Power.SchDoc | Designed by: Mattias Floyd | |

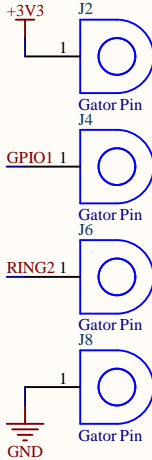
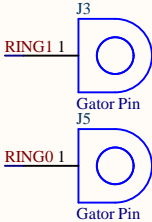
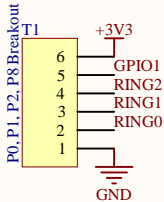
Microphone




Speaker

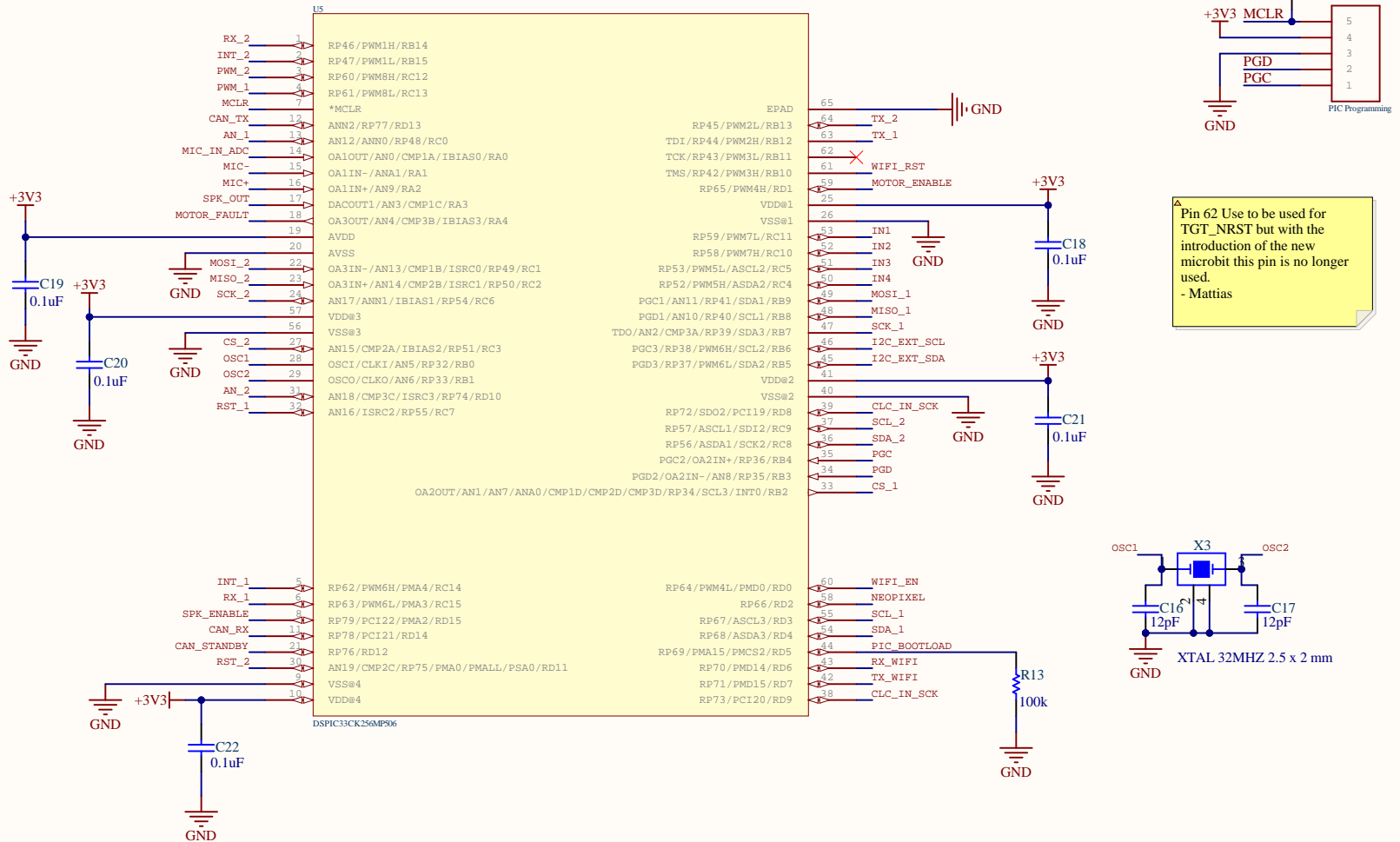



Gator Clips

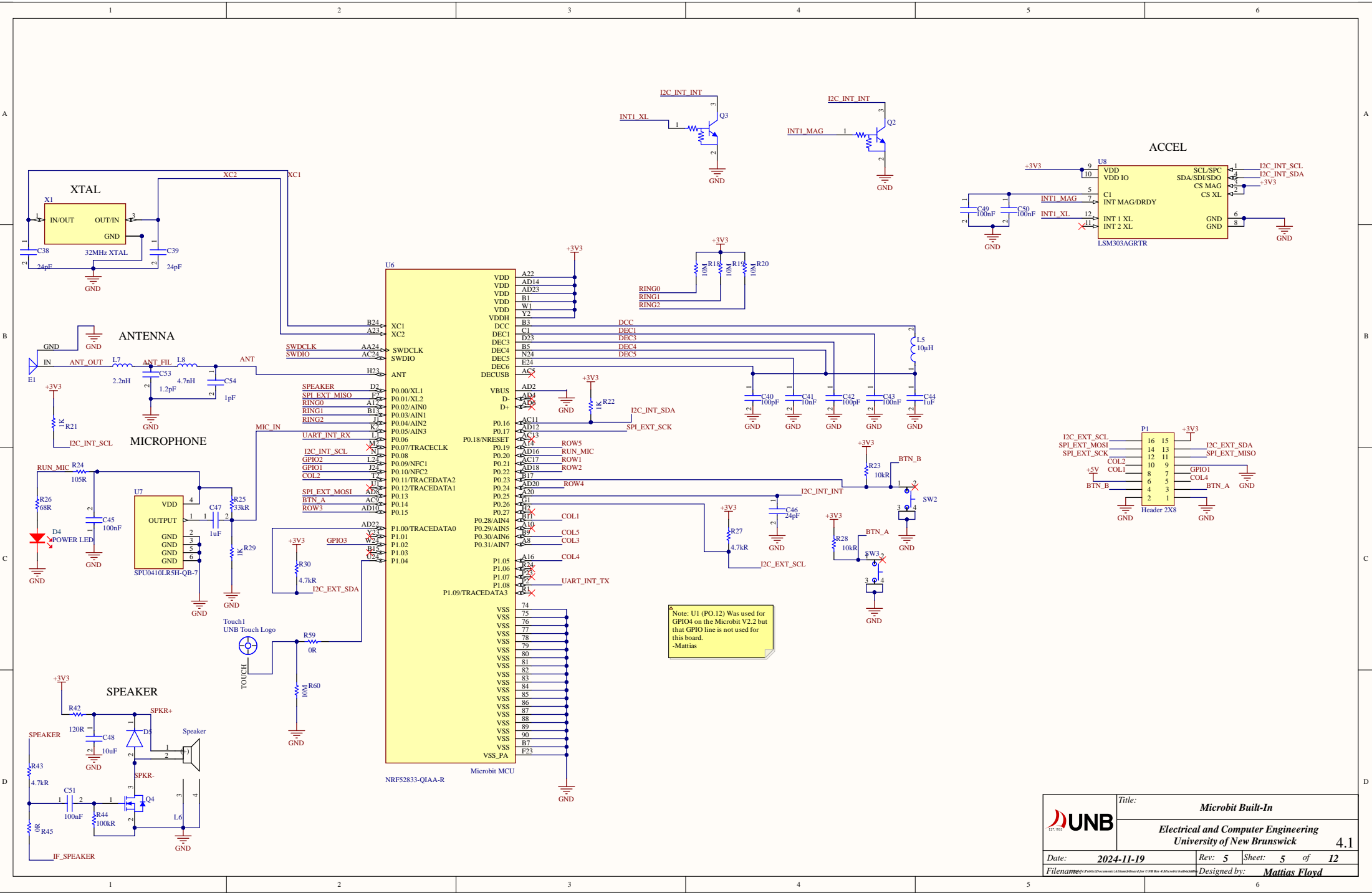


| | | | |
|---|--|--------------|---------------|
|  | Title: Gator Clips | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: | 2024-11-19 | Rev: | 4.1 |
| Filename: | Gator Clips.SchDoc | Sheet: | 3 of 12 |
| | | Designed by: | Mattias Floyd |

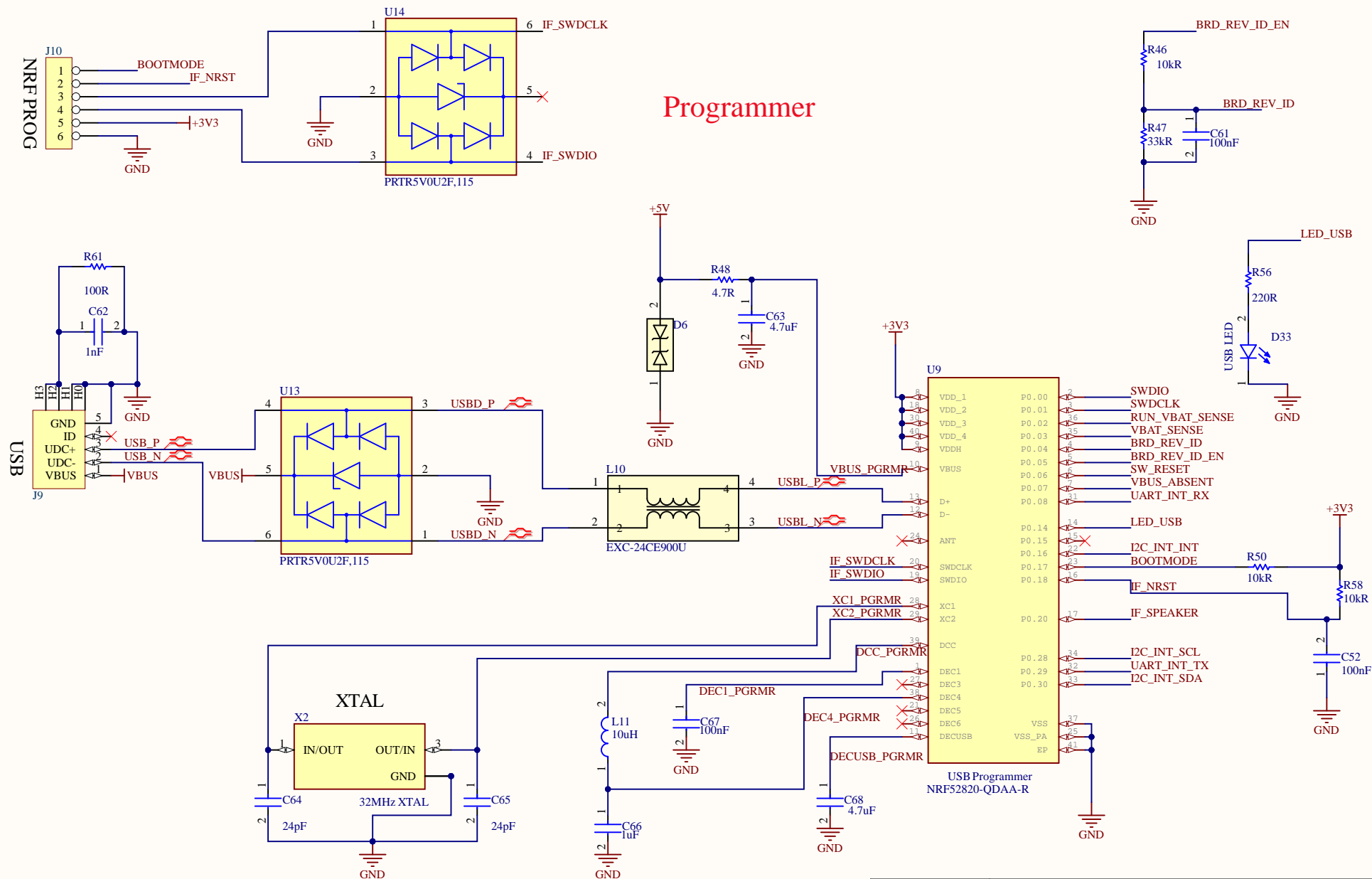
DSP




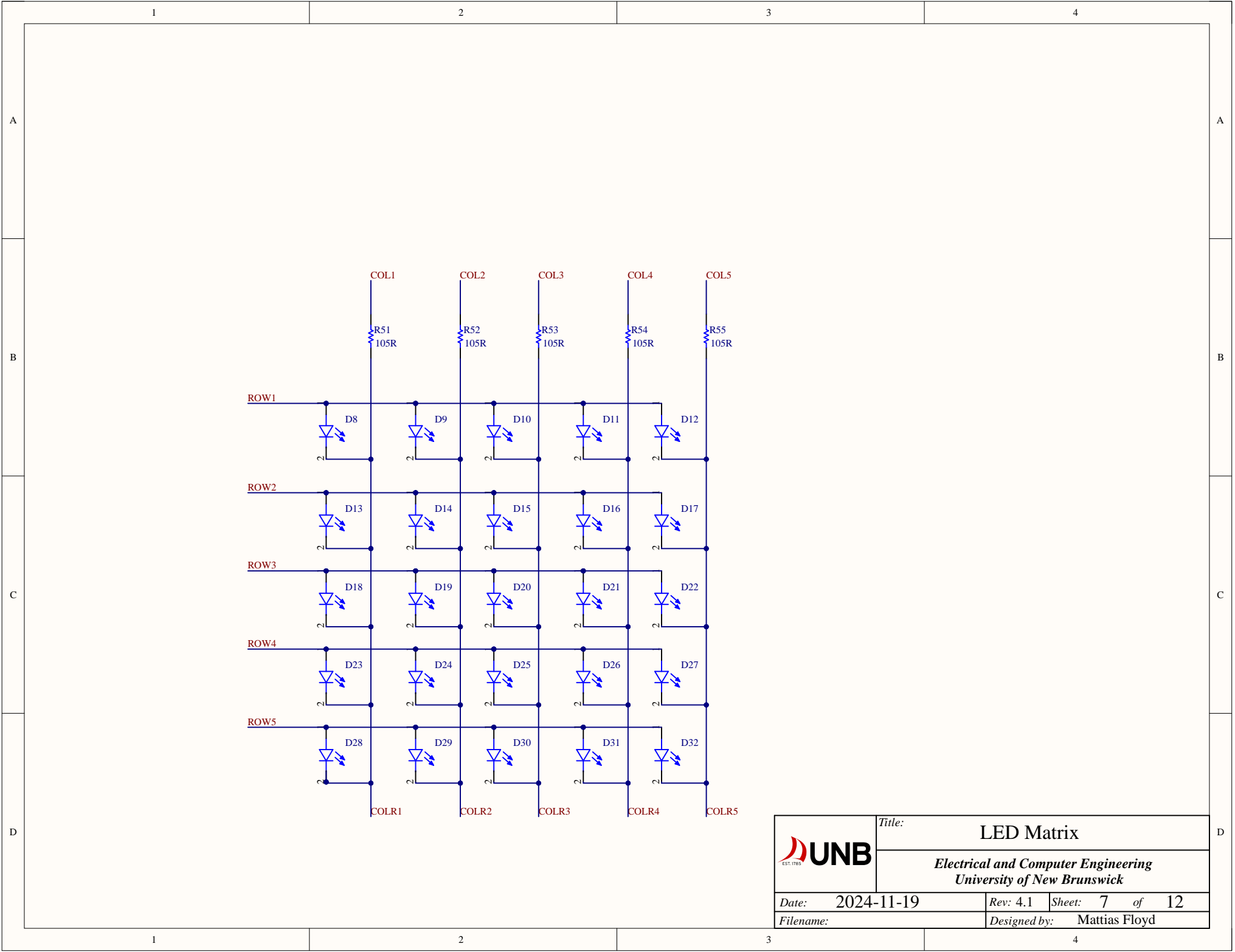
| | | | |
|---|--|----------|-------|
|  | Title: DSP | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: 2024-11-19 | Rev: 1 | Sheet: 4 | of 12 |
| Filename: DSP.SchDoc | Designed by: Mattias Floyd | | |



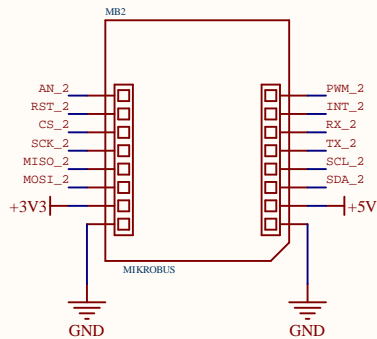
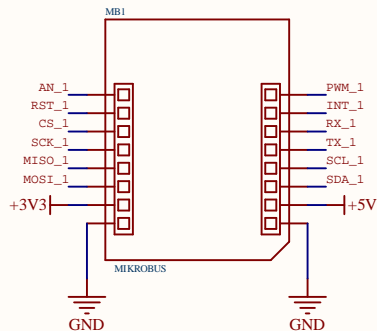
Programmer




| | | | |
|---|--|----------|-------|
|  | Title: Microbit Programmer | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 6 | of 12 |
| Designed by: Mattias Floyd | | | |

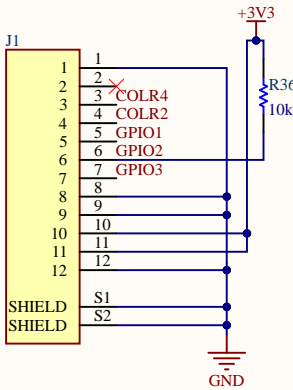
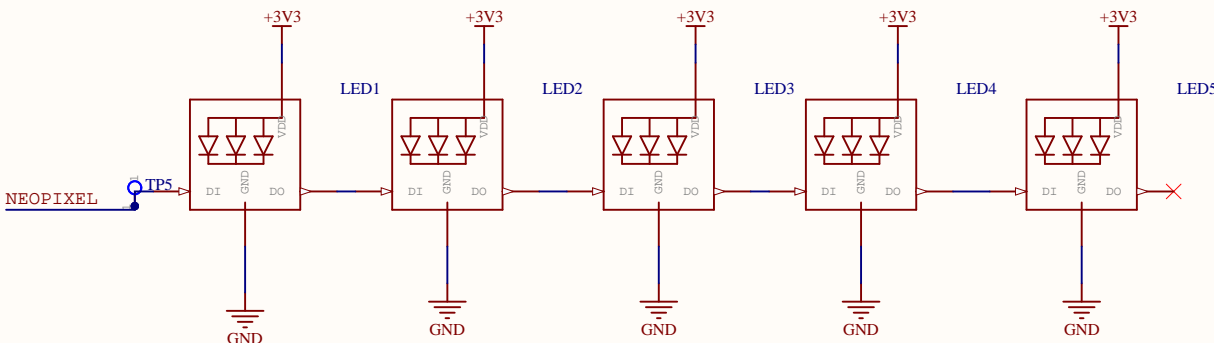


Mikrobus

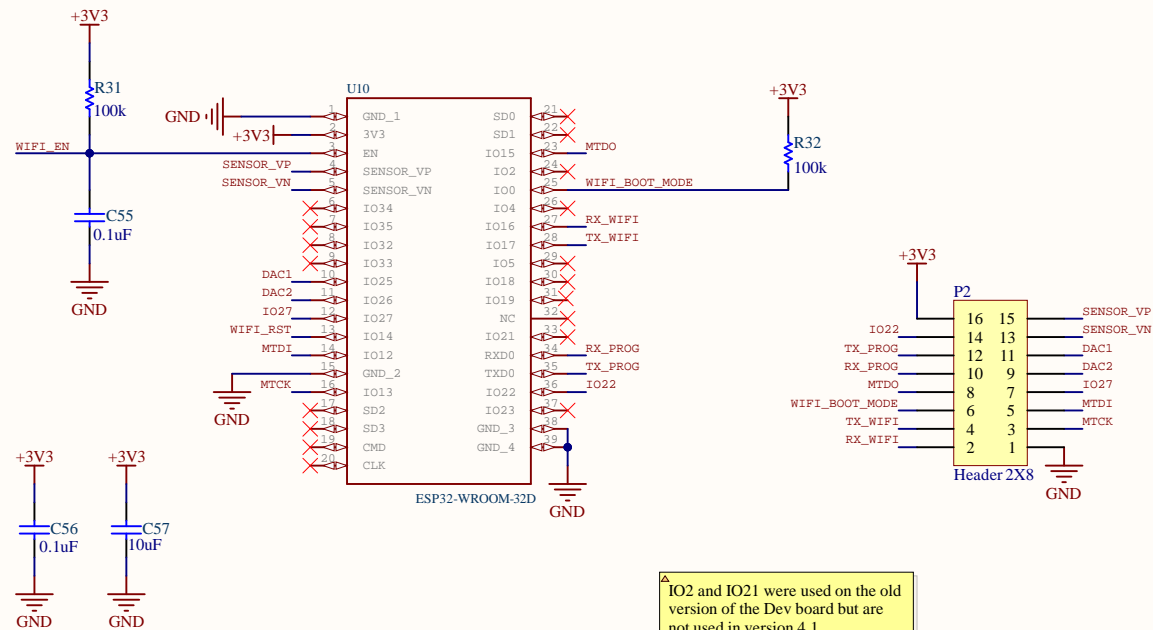


| | | | |
|---|--|----------------|--|
|  | Title: Mikrobus | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 8 of 12 | |
| Filename: Mikrobus.SchDoc | Designed by: Mattias Floyd | | |


NeoPixels



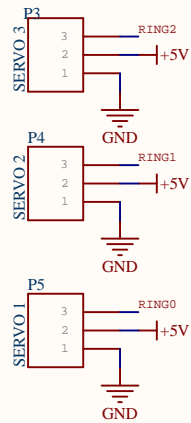
ESP32 Wi-Fi



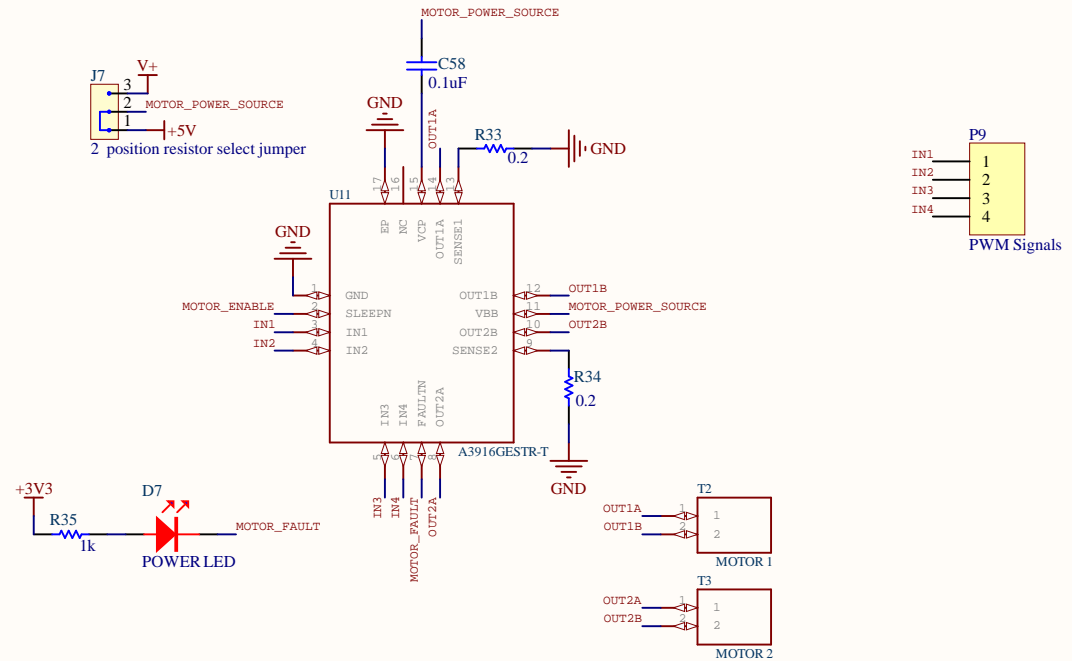
IO2 and IO21 were used on the old version of the Dev board but are not used in version 4.1.
-Mattias


| | | | |
|---|--|-----------|-------|
|  | Title: ESP32 Wifi | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 10 | of 12 |
| Filename: ESP32 Wi-Fi.SchDoc | Designed by: Mattias Floyd | | |

Servo Headers

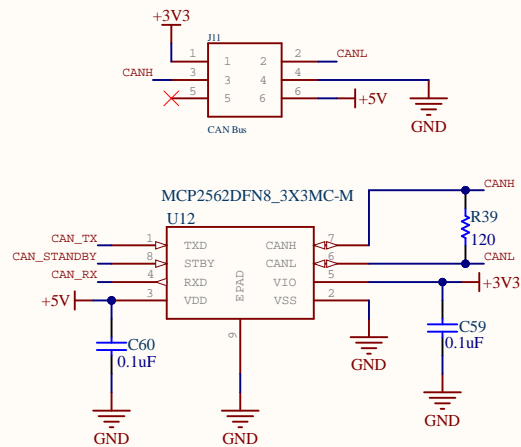


Motor Driver



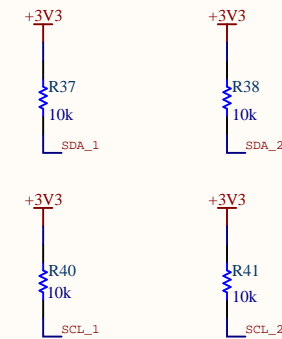
| | | | |
|---|--|-----------|-------|
|  | Title: Motor Driver | | |
| | Electrical and Computer Engineering University of New Brunswick | | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 11 | of 12 |
| Filename: Motor Driver.SchDoc | Designed by: Mattias Floyd | | |


CAN



Pin 5 on J11 (The CAN Bus port) was connected to a net called TERMDETECT on REV 3 but is not used in Rev 4.1.
-Mattias

I2C Con



| | | |
|---|--|-----------------|
|  | Title: Can and I2C | |
| | Electrical and Computer Engineering University of New Brunswick | |
| Date: 2024-11-19 | Rev: 4.1 | Sheet: 12 of 12 |
| Filename: CAN and I2C.SchDoc | Designed by: Mattias Floyd | |

