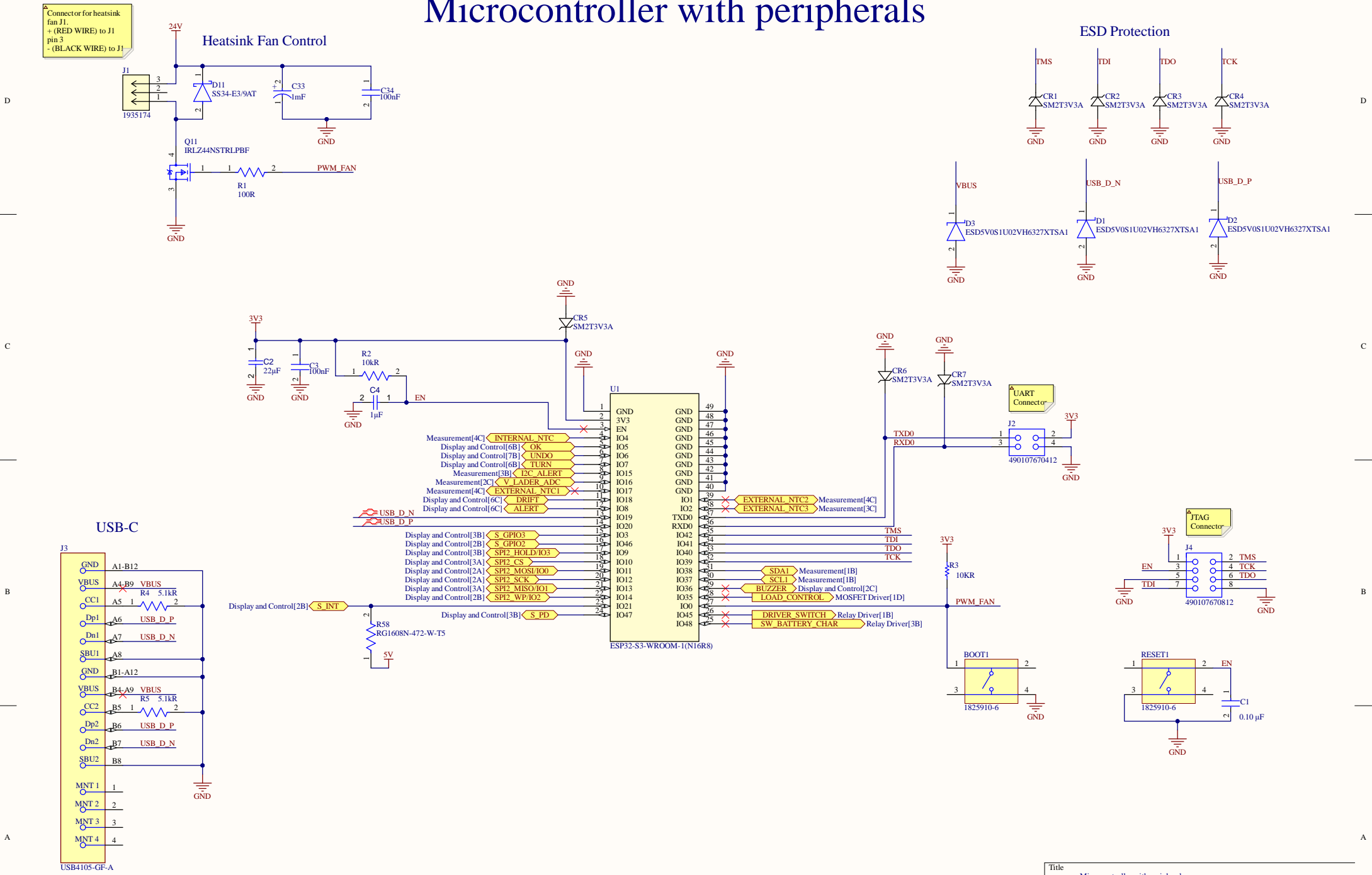


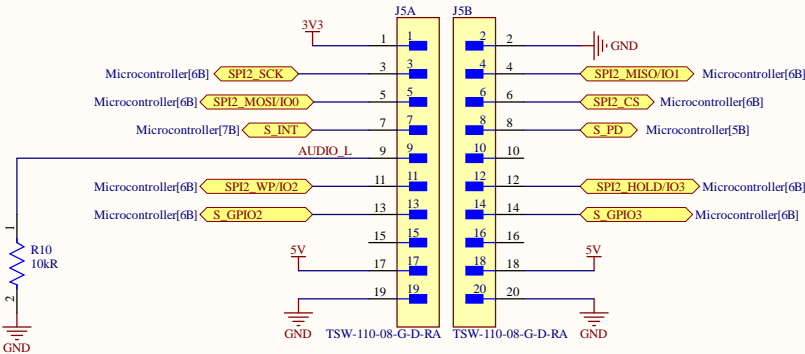
Microcontroller with peripherals



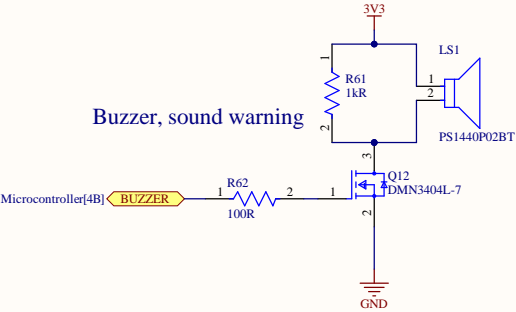
Title		
Microcontroller with peripherals		
Size	Number	Revision
A3		
Date:	5/13/2025	Sheet of
File:	C:\Users\...\Microcontroller.SchDoc	Drawn By: Sondre Pettersen

Display and HMI Controls

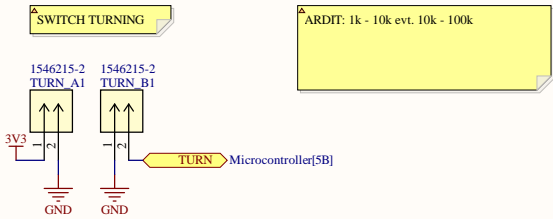
Display Connector



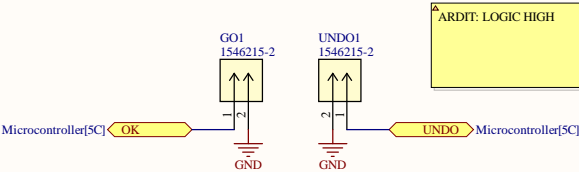
Buzzer, sound warning



Turn knobs, rotary encoder/potmeter



Push buttons



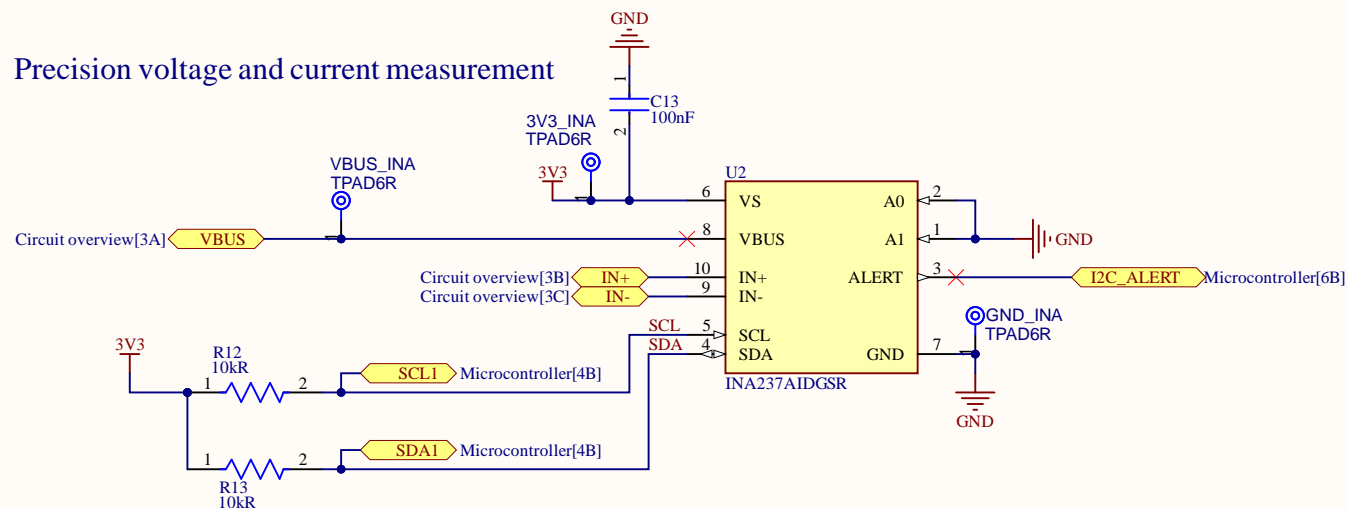
Status LED



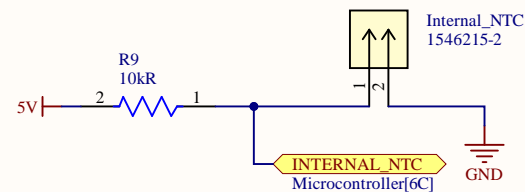
Title		
Display and HMI Controls		
Size	Number	Revision
A3		
Date:	5/13/2025	Sheet of
File:	C:\Users\Ardit\Display and Control.SchDoc	Drawn By: Ardit Uka

Measurement

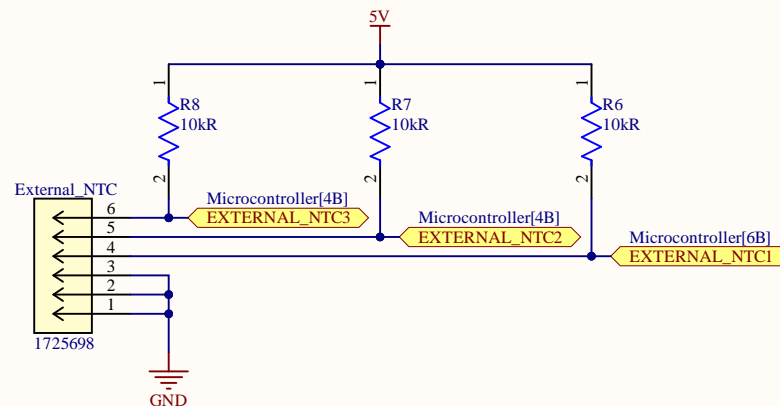
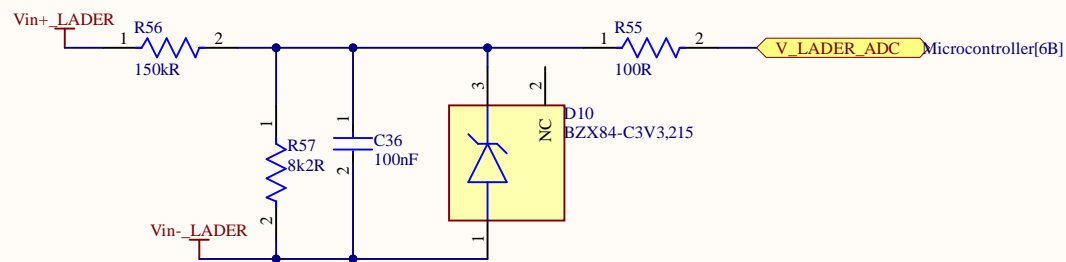
Precision voltage and current measurement



NTC Temperature sensors

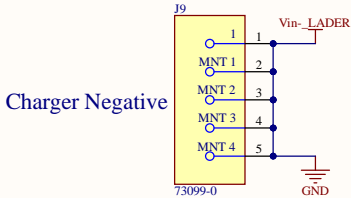
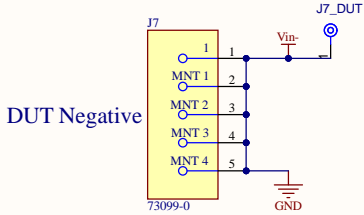
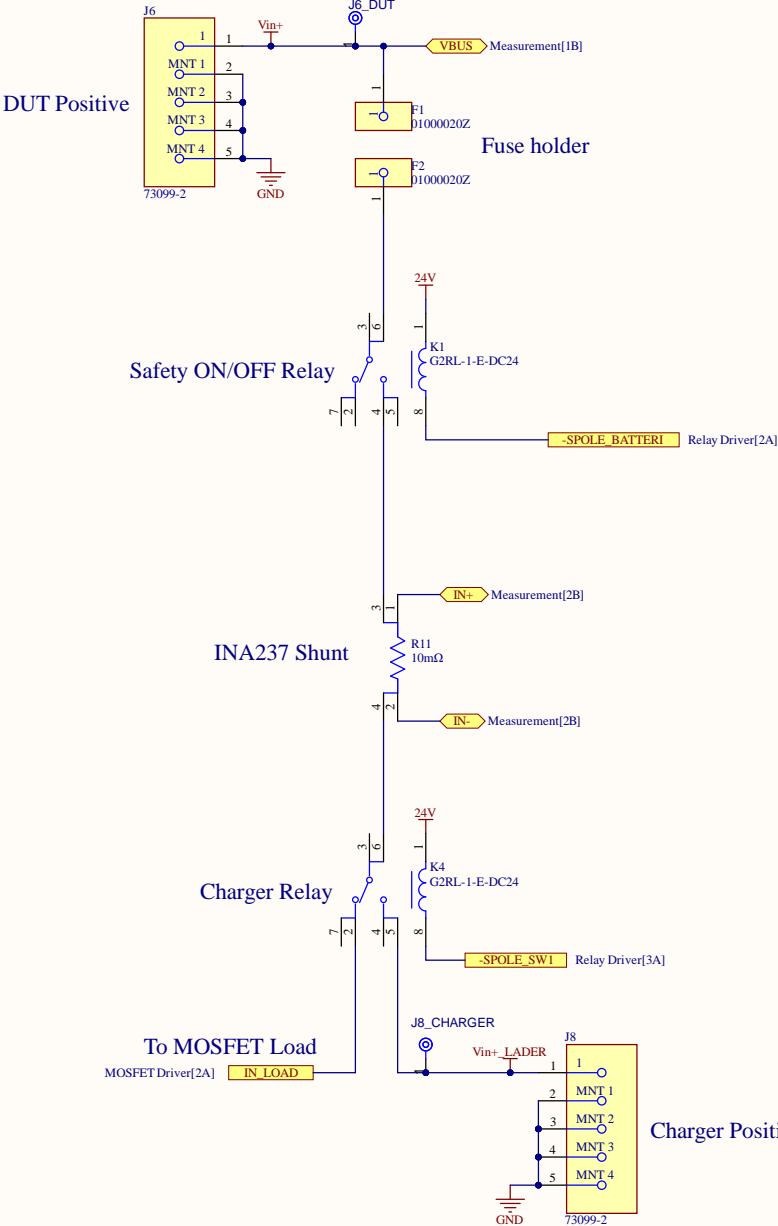


Voltage measurement for battery charger



Title		
Voltage and Current Measurement		
Size	Number	Revision
A4		
Date:	5/13/2025	Sheet of
File:	C:\Users\...\Measurement.SchDoc	Drawn By: Ardit Uka

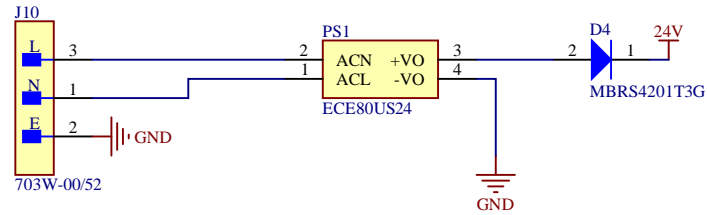
Circuit overview



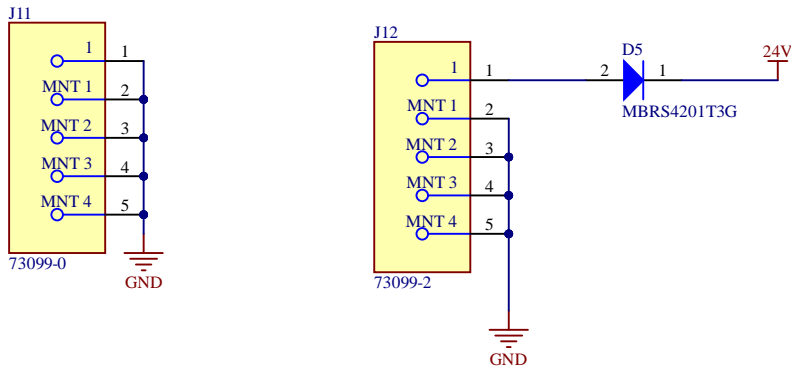
Title Circuit overview		
Size A3	Number	Revision
Date:	5/13/2025	Sheet of
File:	C:\Users\...Circuit overview.SchDoc	Drawn By: Mathias Johansen

Supply circuit

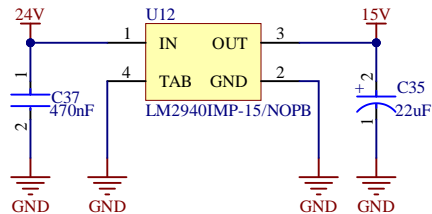
230 V AC Supply



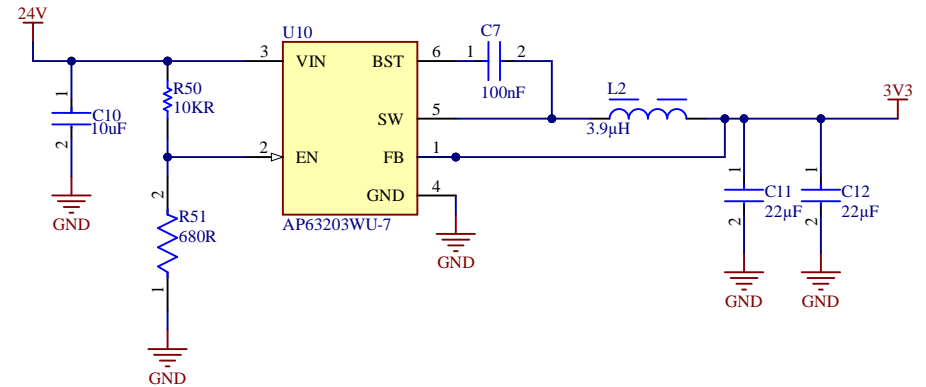
24 V DC Supply



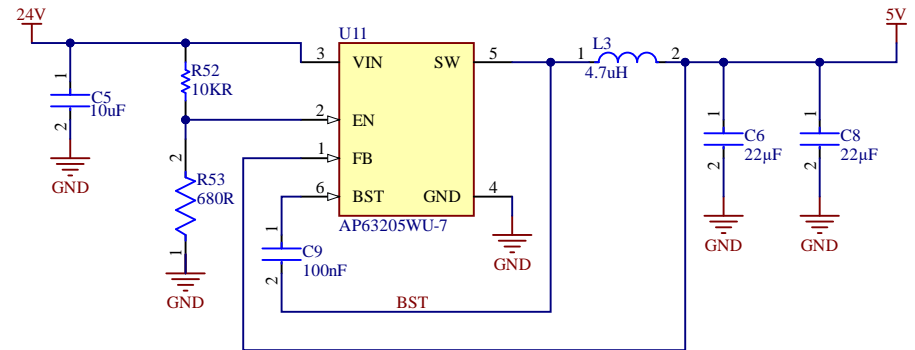
15V Linear regulator



3.3 V Buck Converter

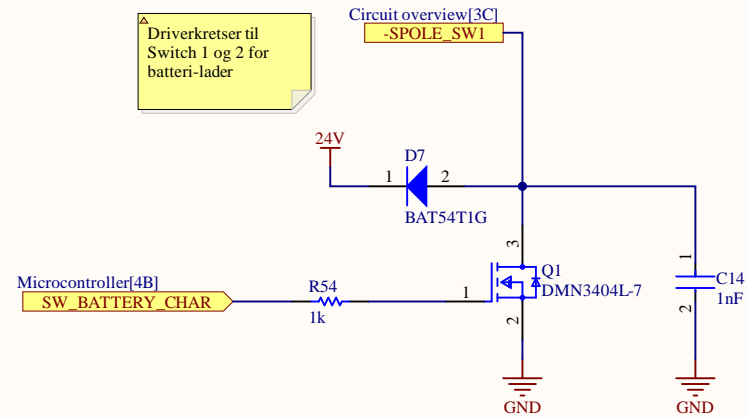
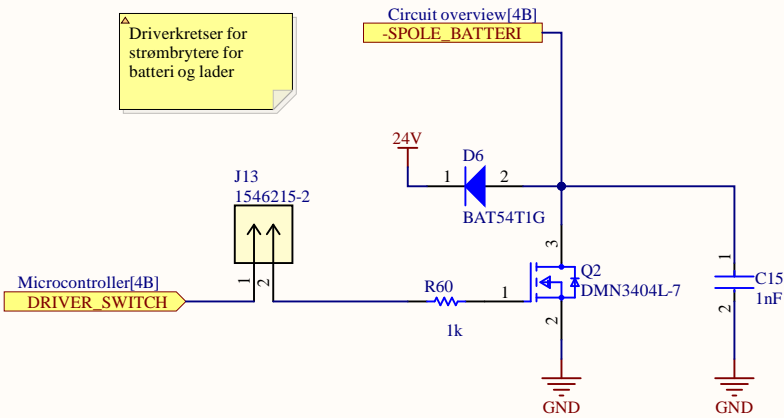


5 V Buck Converter



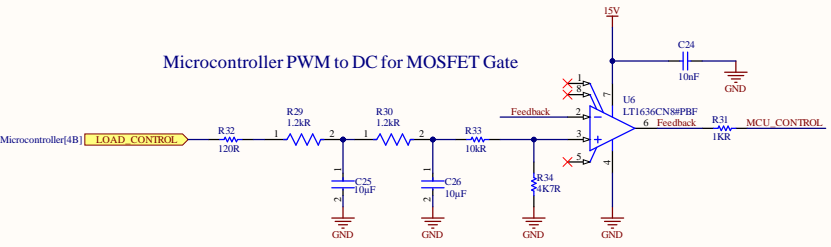
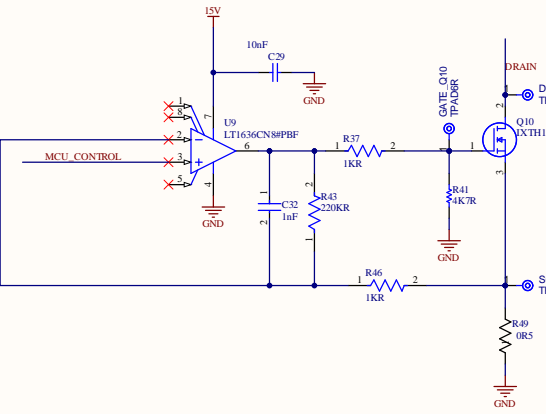
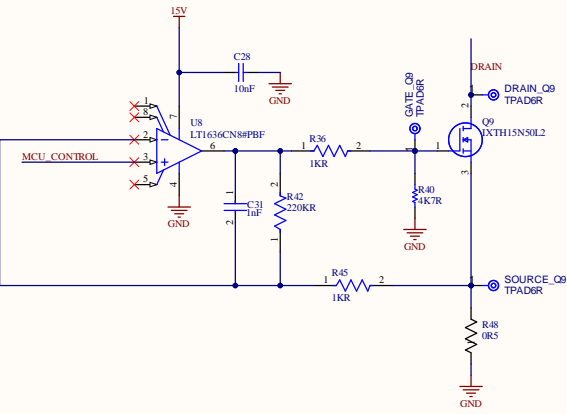
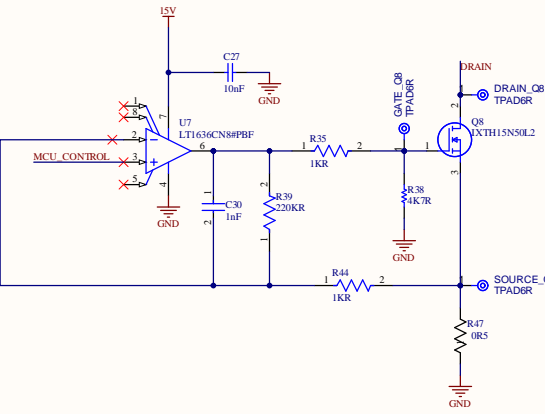
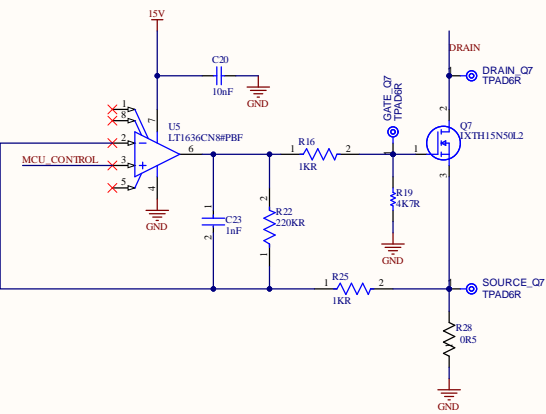
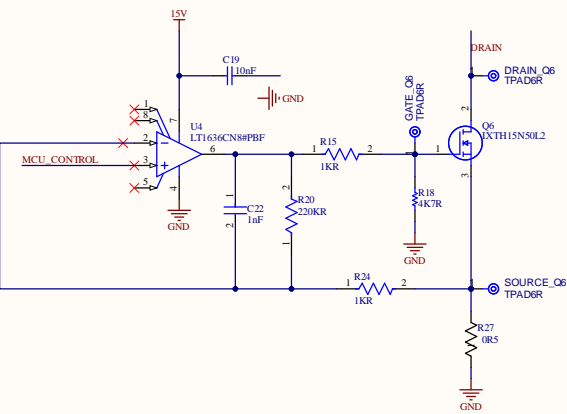
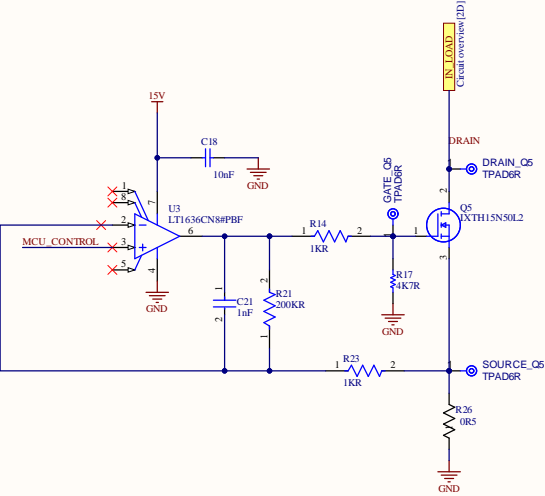
Title Supply circuit		
Size A4	Number	Revision
Date: 5/13/2025	Sheet of	
File: C:\Users\...\Power Supply.SchDoc	Drawn By: Ardit Uka	

Driver circuits for relays



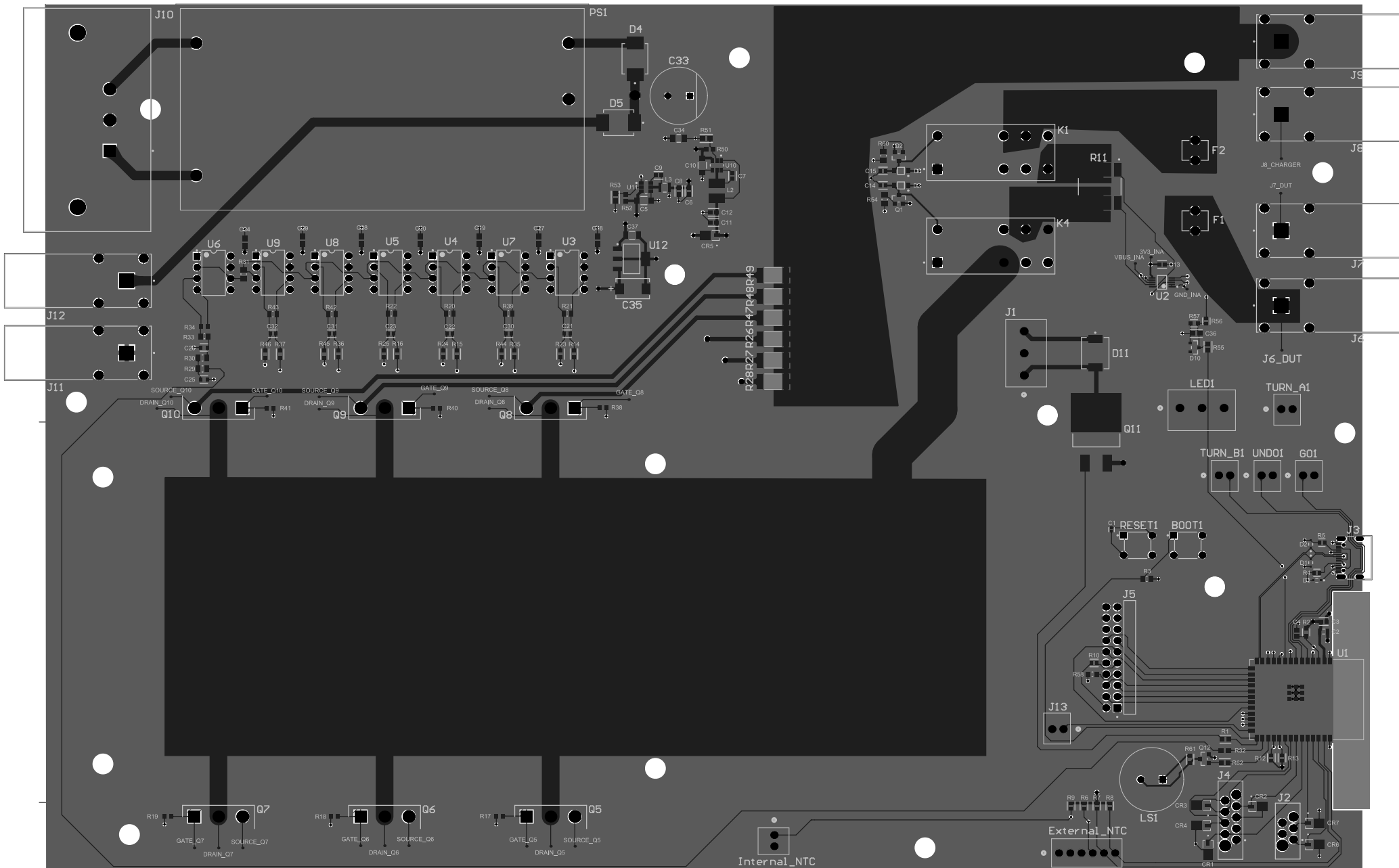
Title		
Driver circuits for relays		
Size	Number	Revision
A4		
Date:	5/13/2025	Sheet of
File:	C:\Users\...\Relay Driver.SchDoc	Drawn By: Mathias Johansen

Driver circuits for MOSFETs



Title		
Driver circuits for MOSFETs		
Size	Number	Revision
A4		
Date:	5/13/2025	Sheet of
File:	C:\Users\...MOSFET Driver.SchDoc	Drawn By: Mathias Johansen

24VDC



Charger

DUT

Internal_NTC

External_NTC

Board Stack Report