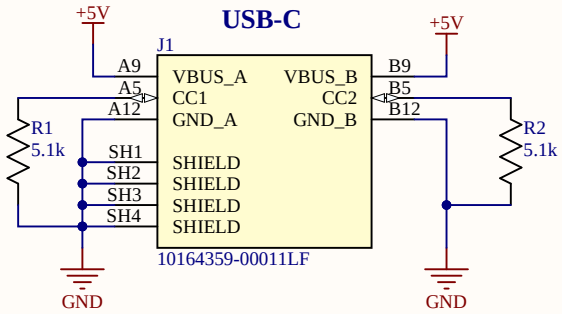
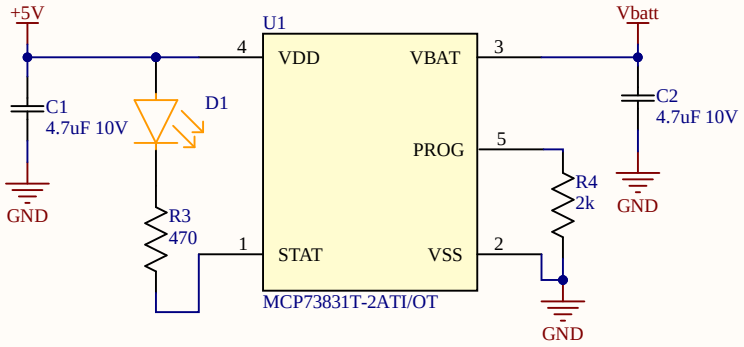
USB-C

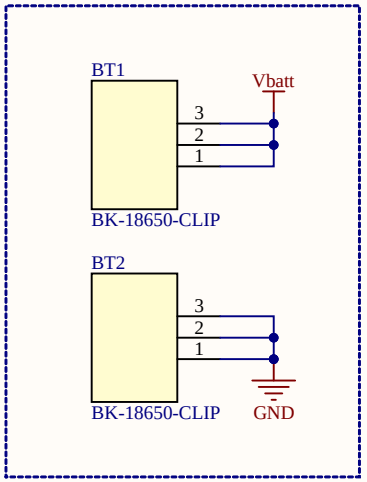


Power Charger



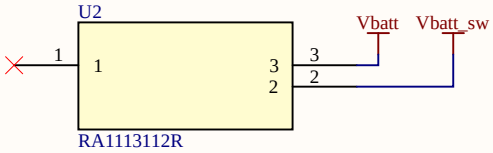
For best thermal performance, add vias from land area of EP to copper layer on opposite side of PCB

18650 Battery

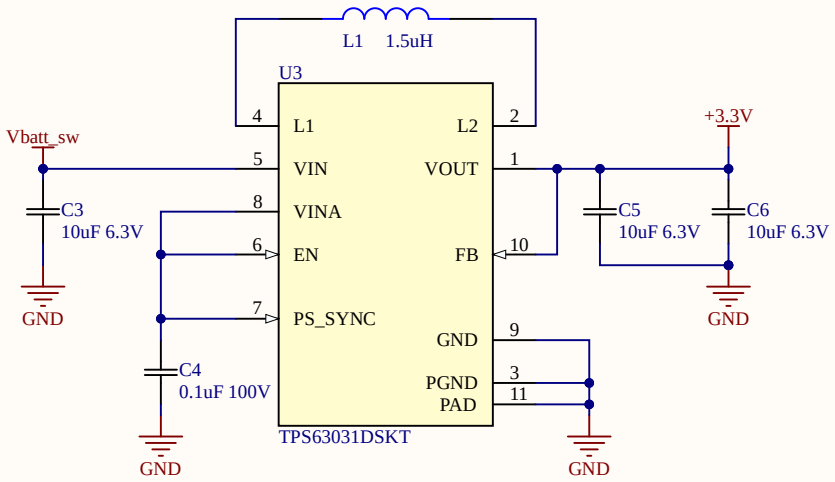


BT1 and BT2 will need to be placed inline, 2560 mils apart + tolerance

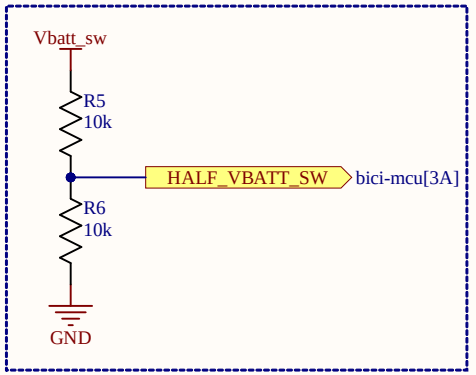
Power Switch



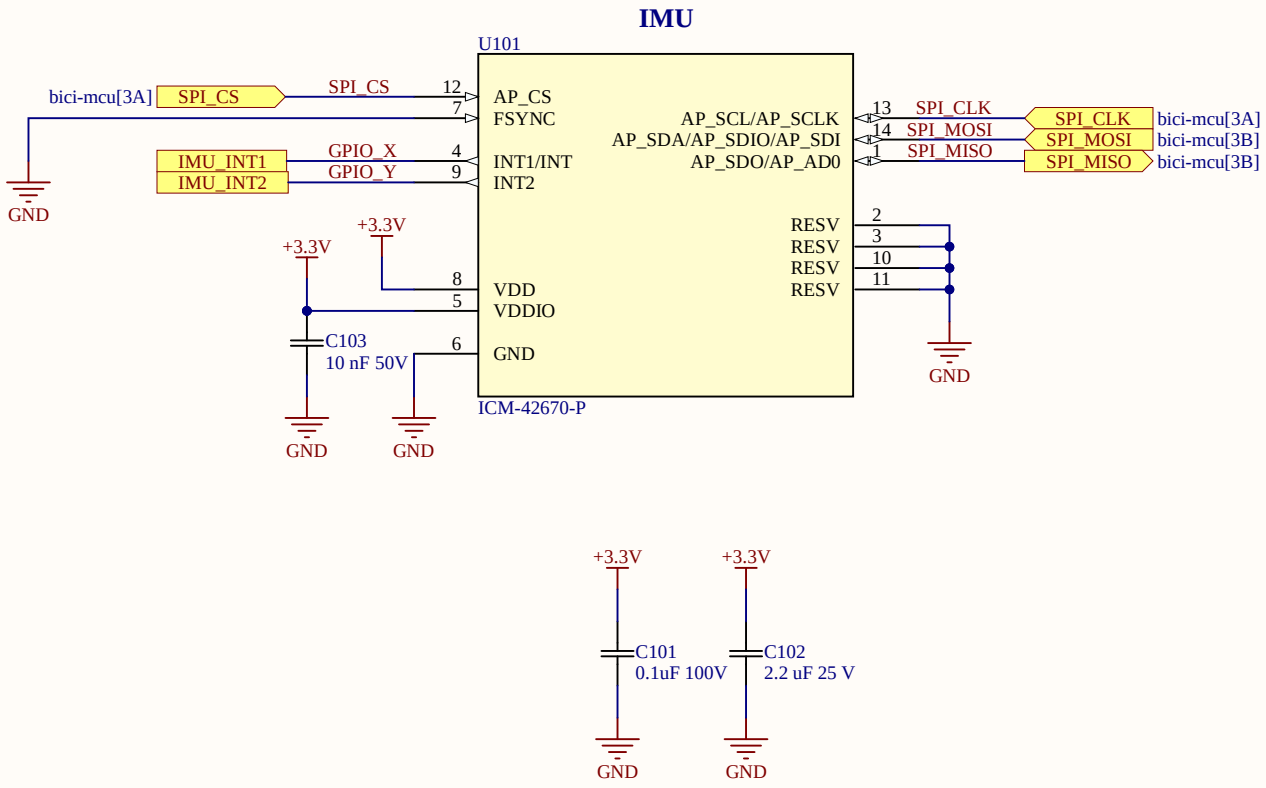
Buck-Boost



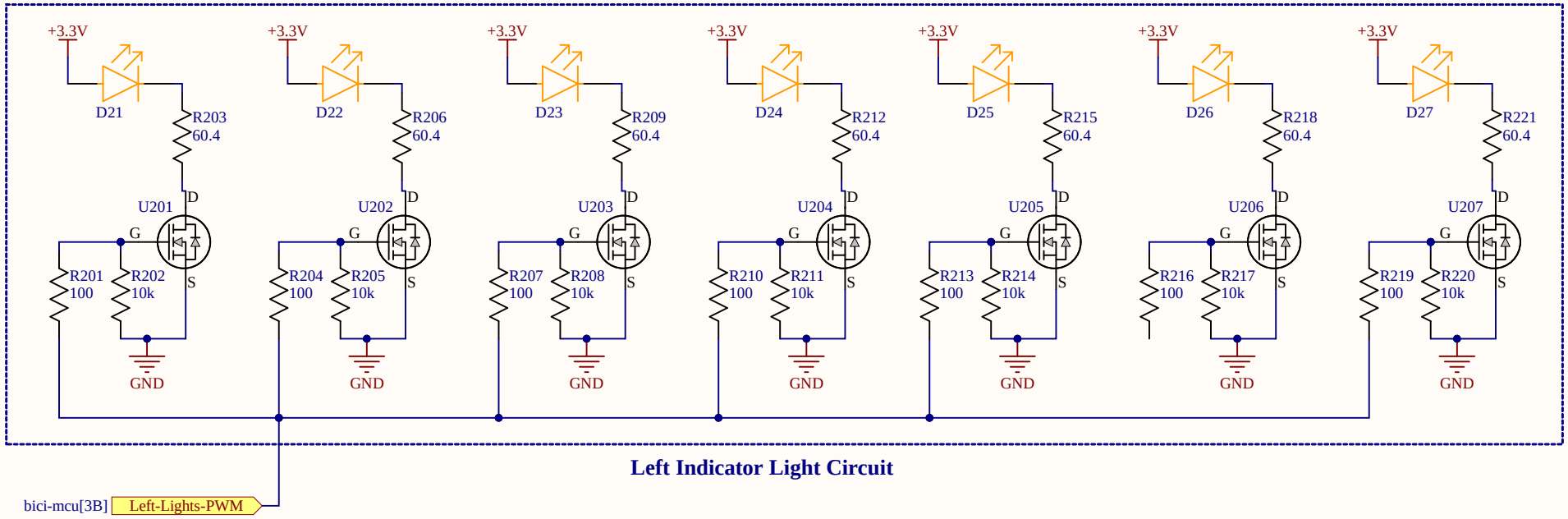
Low Power Detection



Title	**Bici: Power Management** Circuitry related to system power and charging.	
Size A	Number	Revision Rev. A1
Date:	11/12/2025	Sheet1 of 5
File:	C:\Users\..\bici-power.SchDoc	Drawn By: Team Bici

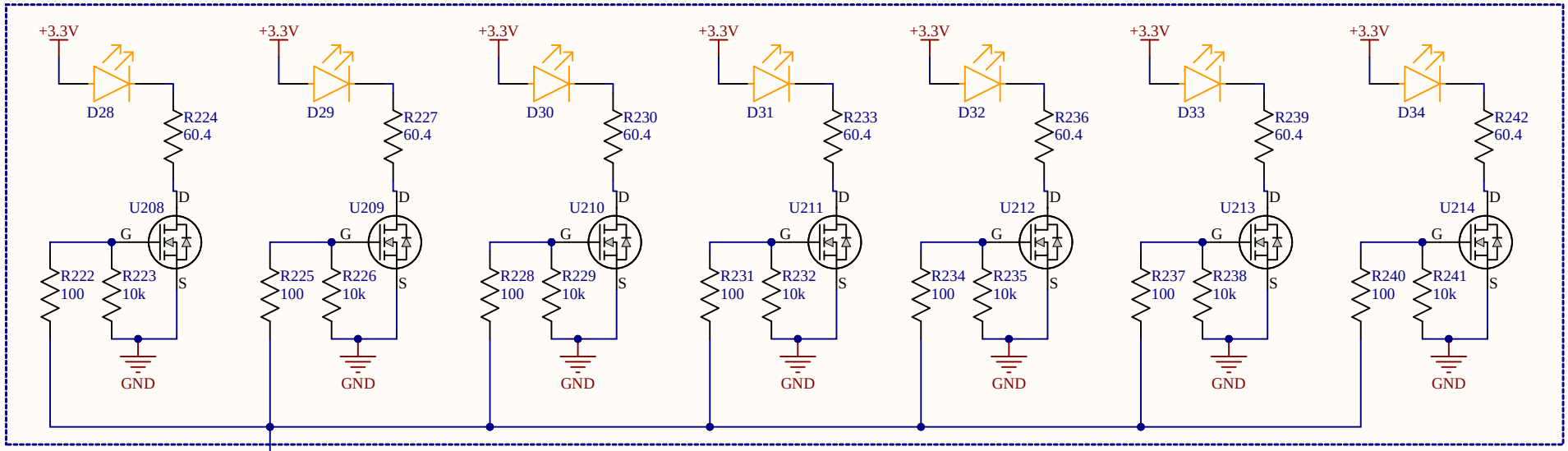


Title	**Bici: IMU** Circuitry related IMU.	
Size A	Number	Revision Rev. A1
Date: 11/12/2025		Sheet2 of 5
File: C:\Users\..\bici-imu.SchDoc		Drawn By: Team Bici



Left Indicator Light Circuit

bici-mcu[3B] Left-Lights-PWM

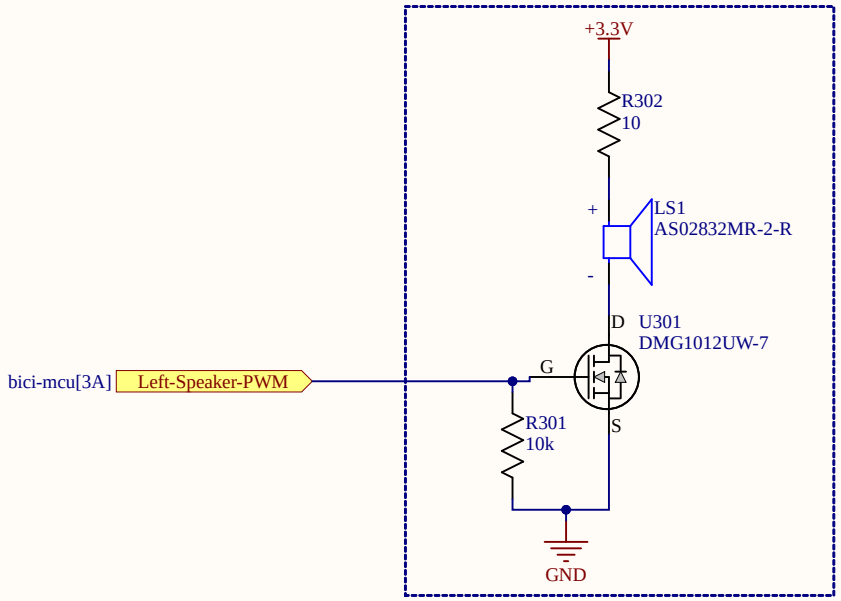


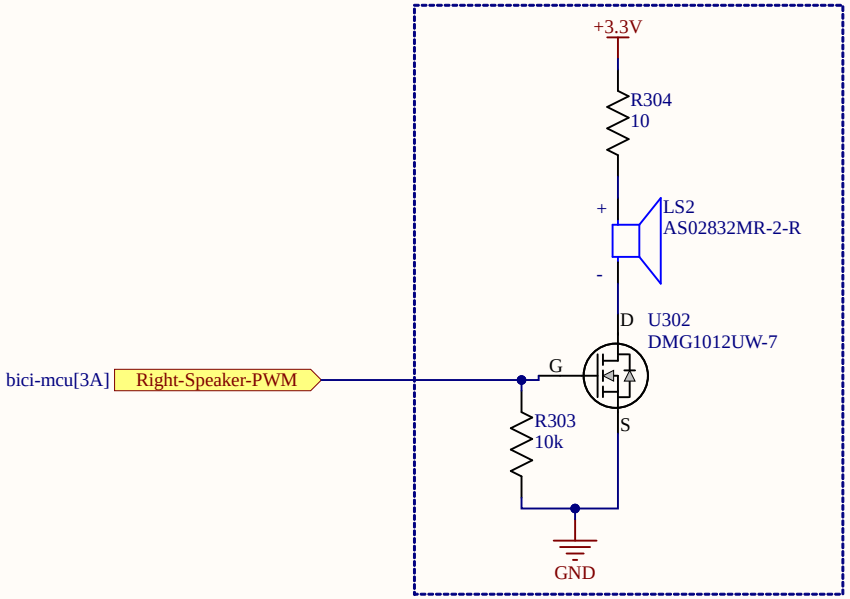
Right Indicator Light Circuit

bici-mcu[3B] Right-Lights-PWM

Title	**Bici: Turn Signal Lights** Circuitry related to light feedback to user and surrounding cars.	
Size A	Number	Revision Rev. A1
Date:	11/12/2025	Sheet3 of 5
File:	C:\Users\..\bici-turn-lights.SchDoc	Drawn By: Team Bici

Left Indicator Audio Feedback Circuit

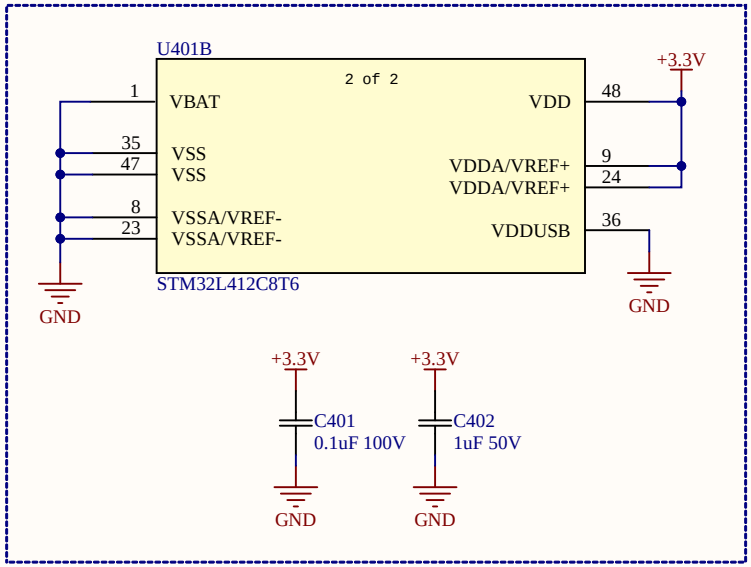




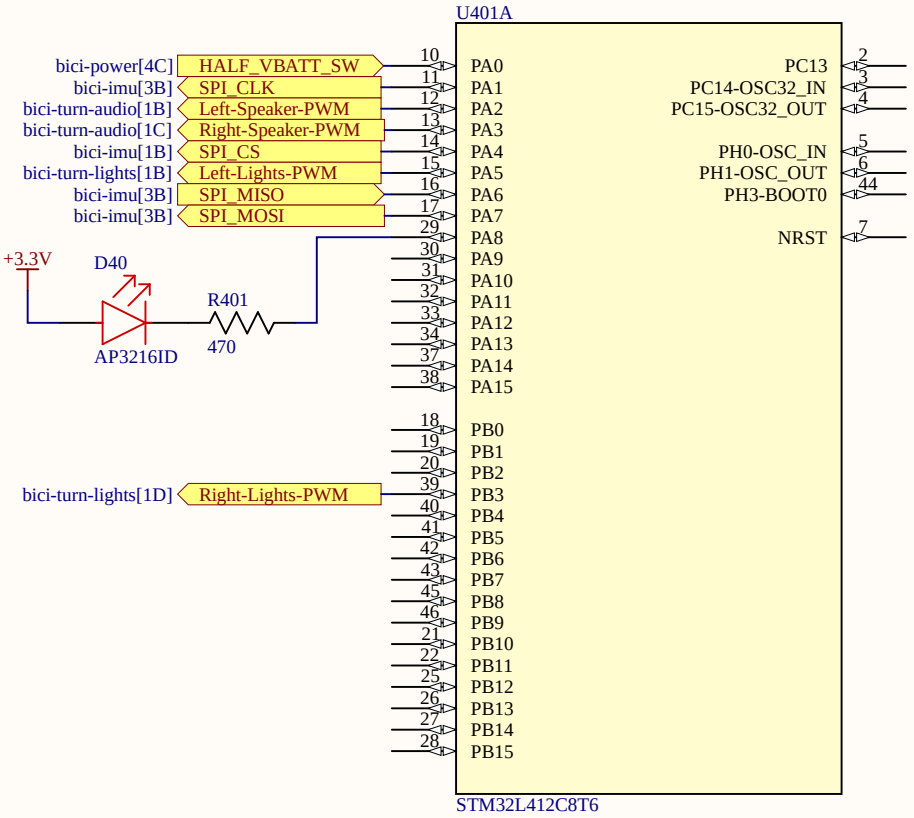
Right Indicator Audio Feedback Circuit

Title	**Bici: Turn Signal Audio** Circuitry related to audio feedback to user.	
Size A	Number	Revision Rev. A1
Date: 11/12/2025		Sheet4 of 5
File: C:\Users\..\bici-turn-audio.SchDoc		Drawn By: Team Bici

STM Power



STM I/O



U401A:
- PA0 is ADC in (for low battery detection)
- PA8 is active-low output for low battery light
- PA2 and PA3 are associated with TIM15 for PWM

Programming/Debugging Connector

TODO

Title	**Bici: MCU** Circuitry related to embedded MCU.	
Size A	Number	Revision Rev. A1
Date: 11/12/2025		Sheet5 of 5
File: C:\Users\..\bici-mcu.SchDoc		Drawn By: Team Bici