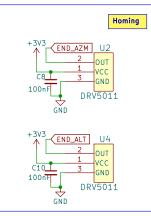
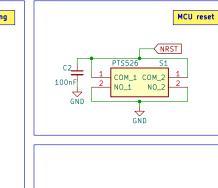
## Post-debugging notes:

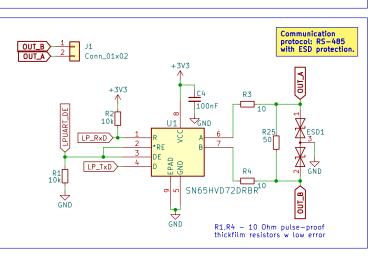
- Hall effect latches are used, which means the HIGH signal holds until the sensor senses a source of magnetic flux with the opposite direction. Find a "switch" instead (Texas Instruments have those too).
- The encoders are open—drain output and the MCU's internal pull—up resistors might be too large for higher speeds, add external circuitry to accommodate this if needed.
- All connection pads and header pins should be replaced with JST connectors for assembly convenience and reliability.
- Encoder input pins on the MCU are selected incorrectly. Either rewire the encoders accordingly, or fix the circuit and reroute the pins. Consult STM32CubeIDE's setup GUI to configurate proper pinout.

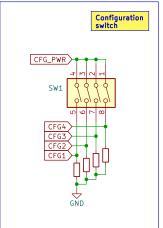


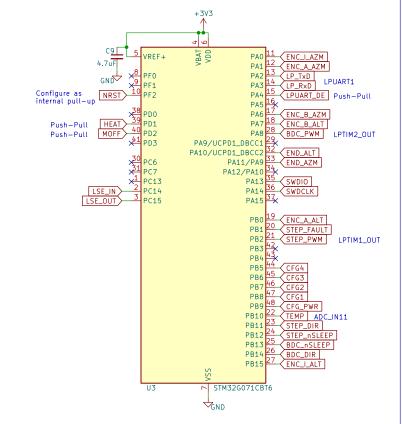


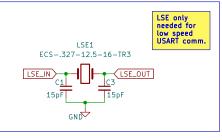


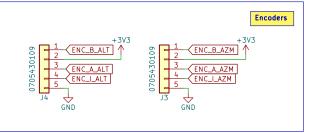
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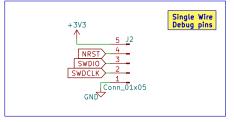


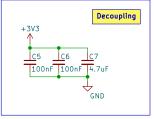


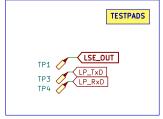












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