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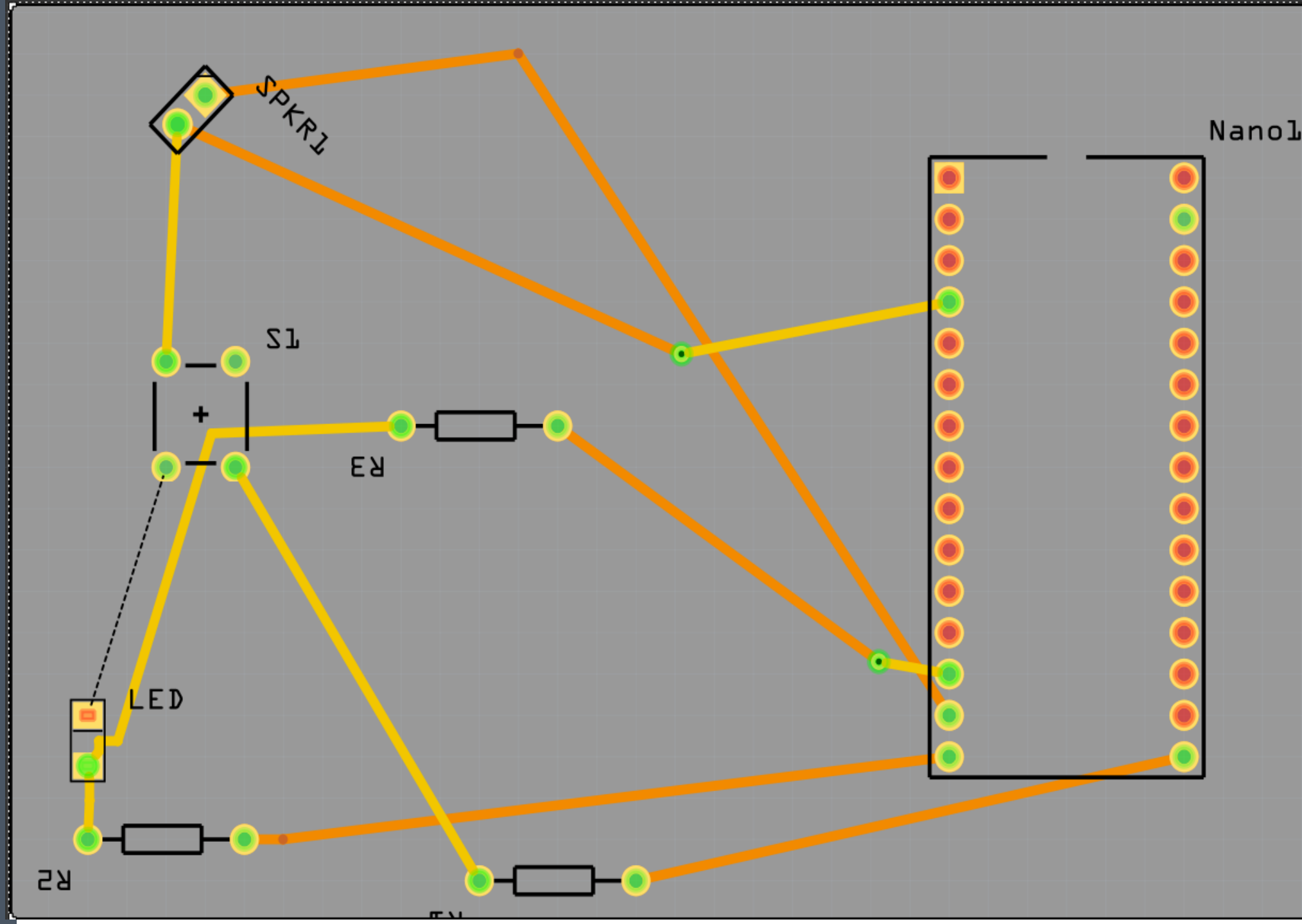
JIBEBE INTERNSHIP 2022

WEEKLY REPORT

BRIAN KUSIMBA

a) [104]Debugging and completion of all functional modules: LCD, hall sensor, state of charge, relays, buzzer and brake lights. Some of the modules such as relays were found with a fault
b) [103]Development of a circuit for operating the tricycle in reverse mode.
c) [70]Linear acceleration fault. The team added a capacitor in parallel to the output of the PWM pin to stabilize the output but the motor response had ripples. It was concluded that A DAC converter was needed since the pwm signal was found to be too unsteady to properly operate the motor.
d) Updates on the PCB schematic design. An additional schematic was made for electrical control of reversing mechanism shown below.

PCB SCHEMATIC DESIGN



TASKS THIS WEEK

- Design of 3D printed hub to hold LCD, LED and the Reverse Button
- Acquisition of LCD display(16x2), push button, industrial LED for reverse display, DAC and buzzer.
- PCB fabrication using PAUSTI labs
- Integration of DAC to motor acceleration control

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Thank You