

# Wabash Capstone Project Notes 03

By: John Danison

# What Did I Say I Would Do This Week?



Continue to refine the noise readings in strain gauge.



Continue creating schematics in Altium Designer

# What I Have Done Over The Past Week



Added additional software filtering in firmware to help reduce noise.



Scheduled and held a meeting with my analog signal processing professor Mike Jacob.



Started constructing new noise conditioning circuit.



Attended the Wabash Coupler manufacturing tour. Ensured standard wire terminations match planned PCB implication.

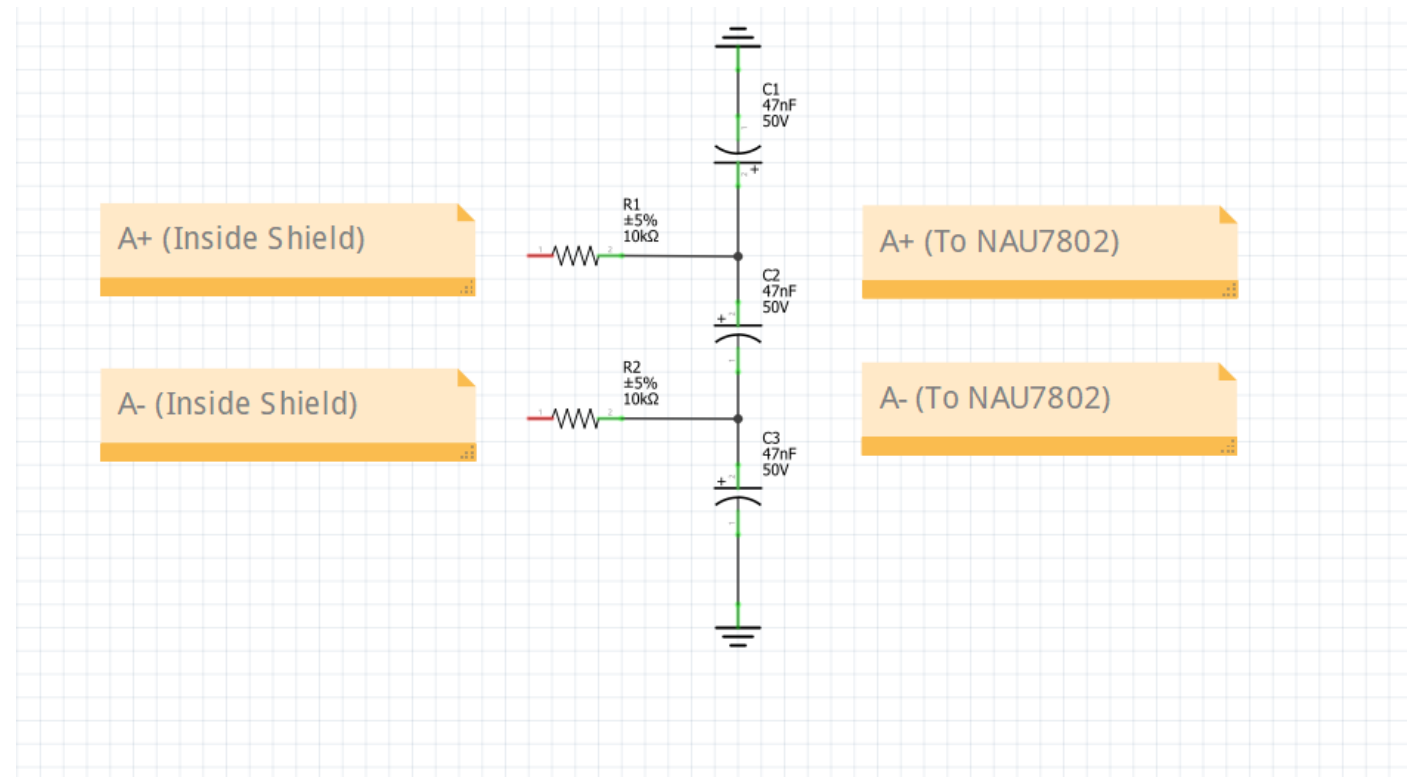
# Noisie Reduction Strategies

Professor Jacob described a method to help significantly reduce the noise.

Instead of using the breadboard jumper wires, use shielded twisted pair wires such as a microphone cable.

Then attach the circuit configuration to the right DIRECTLY before the terminal.

He also offered his further assistance Fridays from 11:30 – 2:30 in which I will use this upcoming week.



# Did I Do What I Say I Would Do?

I took the initiative to schedule a meeting to get help with noise filtering, I began testing this. I didn't get around to doing any Altium drawings this week as a result.

I showed up to every lecture, lab, and meeting and contributed my knowledge with everyone.

# Plans For Upcoming Weeks

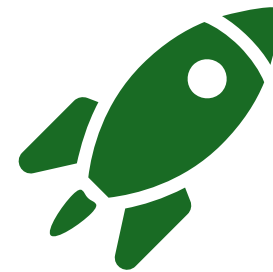


## High Level

Continue to refine system sensors & configuration.

Continue to learn how to use Altium Designer.

Continue to show up to class.



## By EOW:

Continue to further refine the noise readings in strain gauge circuit.

Continue creating schematics in Altium Designer if time allows.