Undergraduate Research Wrap-up

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December 10, 2019

# Scanse Sweep

## What Was Accomplished

* Schematic confirmed
* PCB completed and fabricated in order to test
* Boards assembled.
* Scanse tested. It spins. Debug gets as far as “scan Hz: 1000; Setup (s) 124”.

## What Still Needs to be Done

* PCB can be updated:
  + Pins to Scanse are incorrect, (wrong order) extra screw terminal hardware was needed
  + 6-pin plug to Scanse footprint is backwards
* CAN still needs to be tested. CAN seems to produce too much heat, stops Sweep from spinning.

# Sonar Board

## What Was Accomplished

* Version 2 Schematic adjusted and confirmed
* Version 3 PCB designed to use CAN instead of differential SPI.
* Parts changed from surface mount to through-hole as much as possible

## What Still Needs to be Done

* PCB needs to be fabricated
* CAN still needs to be tested