Matthew Baker

Engineering Journal

Senior Design Capstone II – Spring 2024 Semester

**Date: 01/16/24**

**Type of Meeting: Class**

**Present? Yes**

**Discussion:** Initial get together and update of TA. Researched proper connections to run arduino to program EMC2101 fan controllers.

**Date: 01/18/24**

**Type of Meeting: Class**

**Present? Yes**

**Discussion:** Discussed division of labor further, began work on wiring and pinouts of EMC2101 fan controllers.

**Date: 01/23/24**

**Type of Meeting: Class**

**Present? Yes**

**Discussion:** Received soldered pin version and completed programming of EMC2101 controllers. Received prototype of 3D printed external ventilation covers, gave relevant feedback to Kisellus for revisions to aid in connection to fan.

**Date: 01/25/24**

**Type of Meeting: Class**

**Present? No**

**Discussion:** Absent due to medical appointment. Researched best methods for creating driver boards to house EMC2101 controllers.

**Date: 01/30/24**

**Type of Meeting: Class**

**Present? Yes**

**Discussion:** Worked on basic driver board layout for controller boards with leads for connections to fan, Rpi, etc. Added diodes and screws to part list.

**Date: 01/31/24**

**Type of Meeting: N/A**

**Discussion:** Completed materials testing of vent covers vis-a-vis screw thread tolerances.

**Date: 02/01/24**

**Type of Meeting: Class**

**Present? No, due to disability**

**Discussion:** Pushed v1 of SDD/SRS to GitHub Repo.

**Date: 02/06/24**

**Type of Meeting: Class**

**Members Present: All**

**Discussion:**