A model of a ship

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A picture containing text, case, accessory

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A picture containing text, indoor

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My goal for the 2021 Fall Semester was to create an 8x8x8 LED matrix. To begin, I decided to make a 4x4x4 matrix to understand the principles that I would need to understand when making the bigger design. I spent a weekend creating the template I would use for the 4x4x4 matrix and soldering together the four layers. With some wire wrap wires, a protoboard, and an Arduino Nano, I was able to create a working, programmable 4x4x4 LED matrix. made an LED matrix for my project. It was 8 LEDs wide, deep, and tall. That means I used 512 LEDs!!! I spent general conference weekend prototyping a 4 by 4 by 4 matrix (64 LEDs) which almost worked perfectly. I had burnt out two pins on the Arduino nano, but that wasn’t a problem. I knew I could make the real thing. So, I spent 2 months prepping the LEDs and soldering them together. I got the big LED matrix built by thanksgiving and created a circuit board to place it on. However, this is where it stopped working. I think that the circuit board was of bad quality, so I am going to take it off and build a new one by hand over Christmas.

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A picture containing light, square

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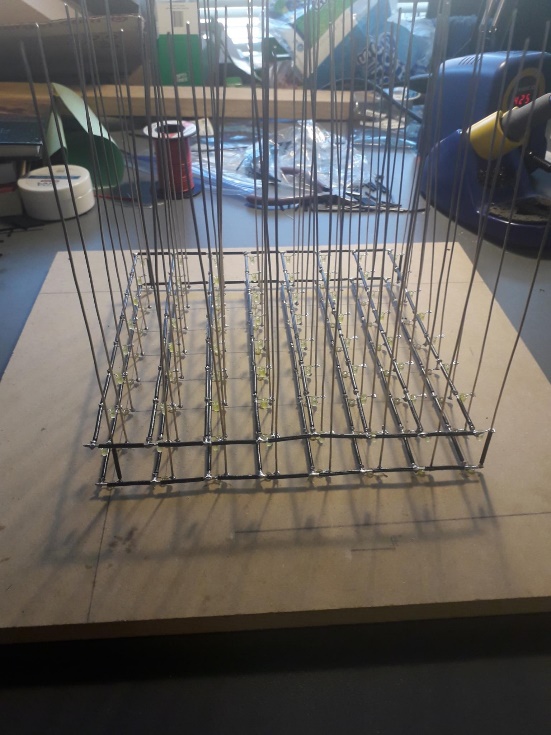
A piece of paper with writing on it

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A picture containing text, wall, indoor, sink

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A picture containing indoor

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Description automatically generatedA picture containing table, indoor, computer, desk

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