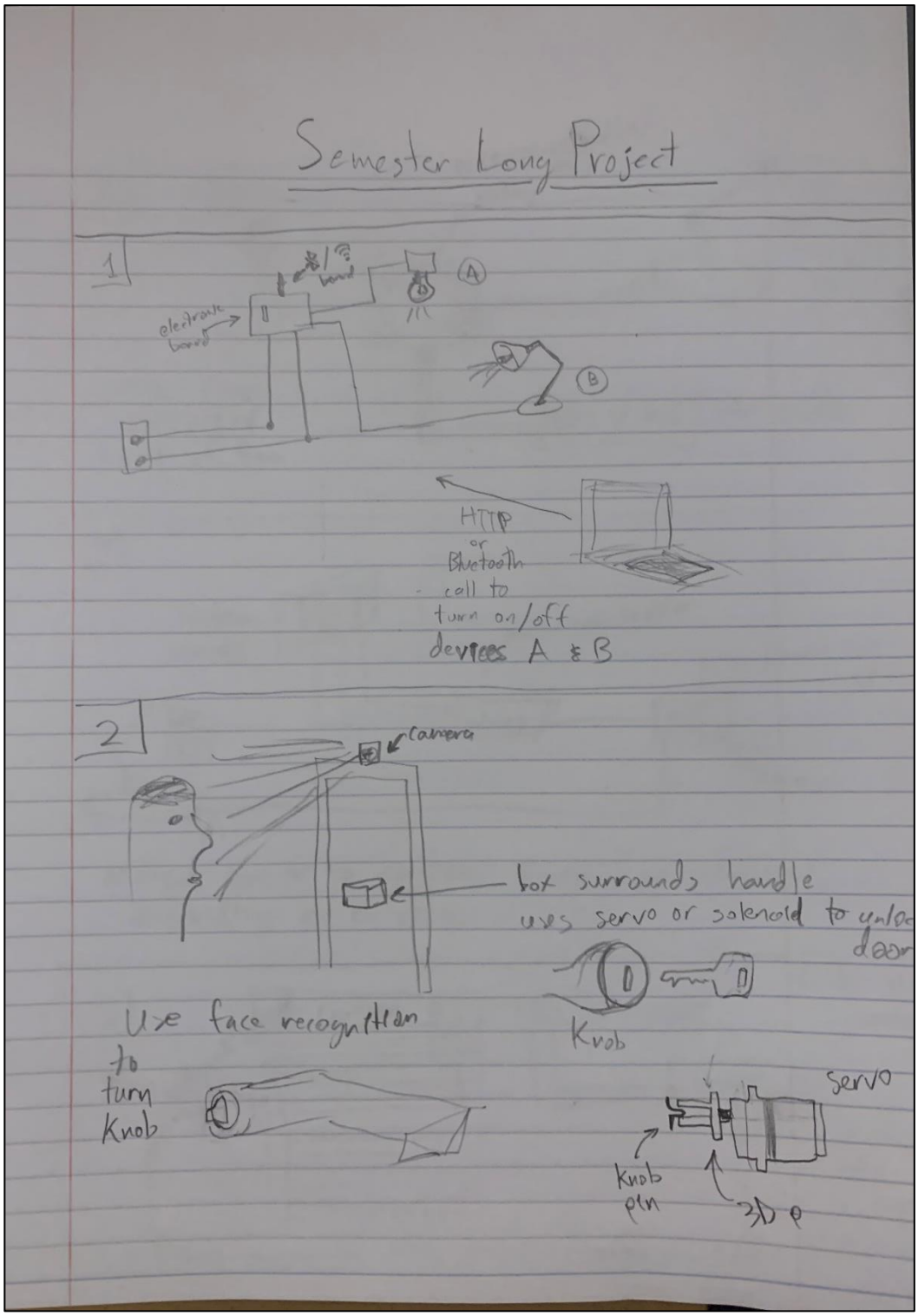
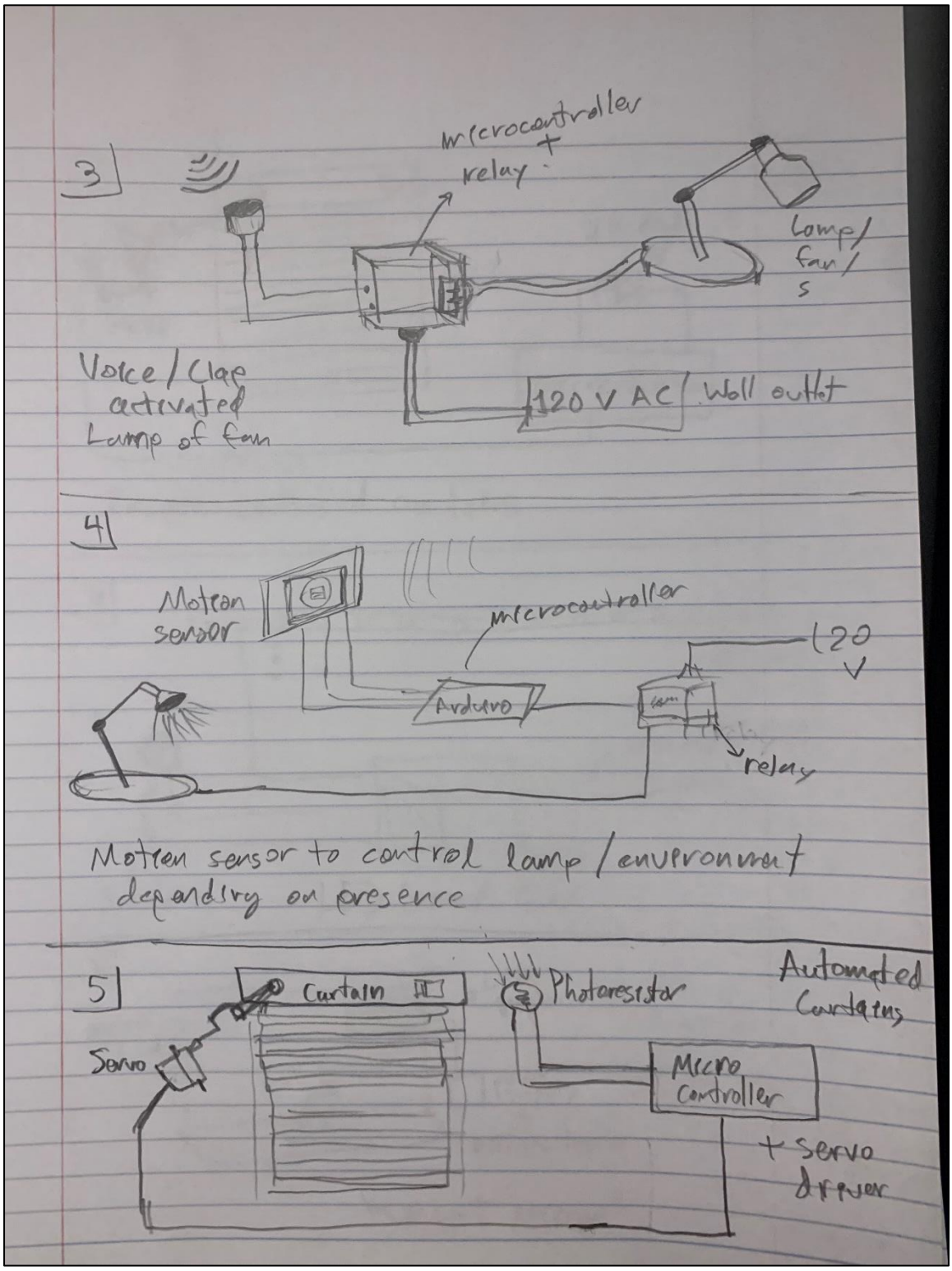
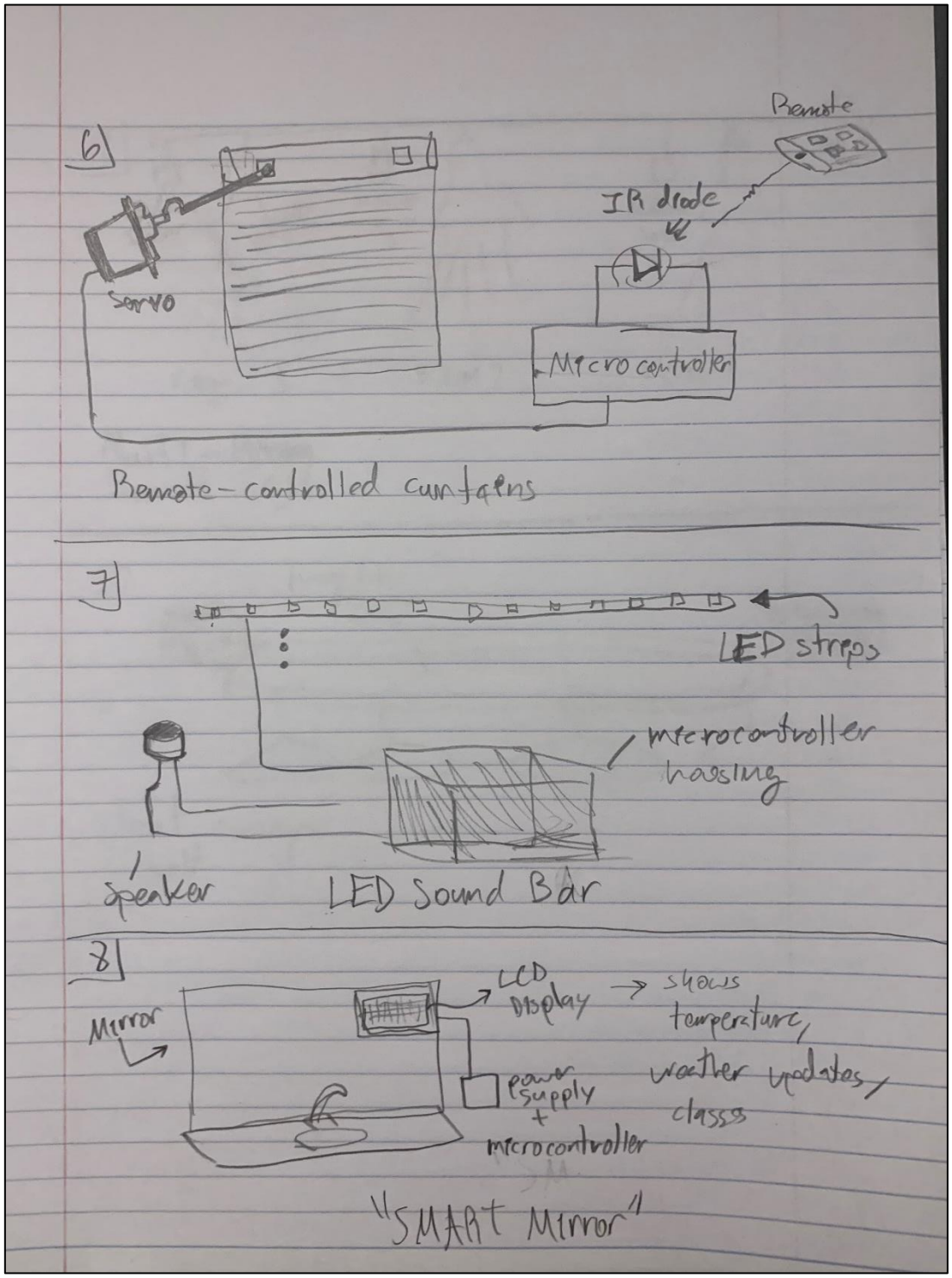
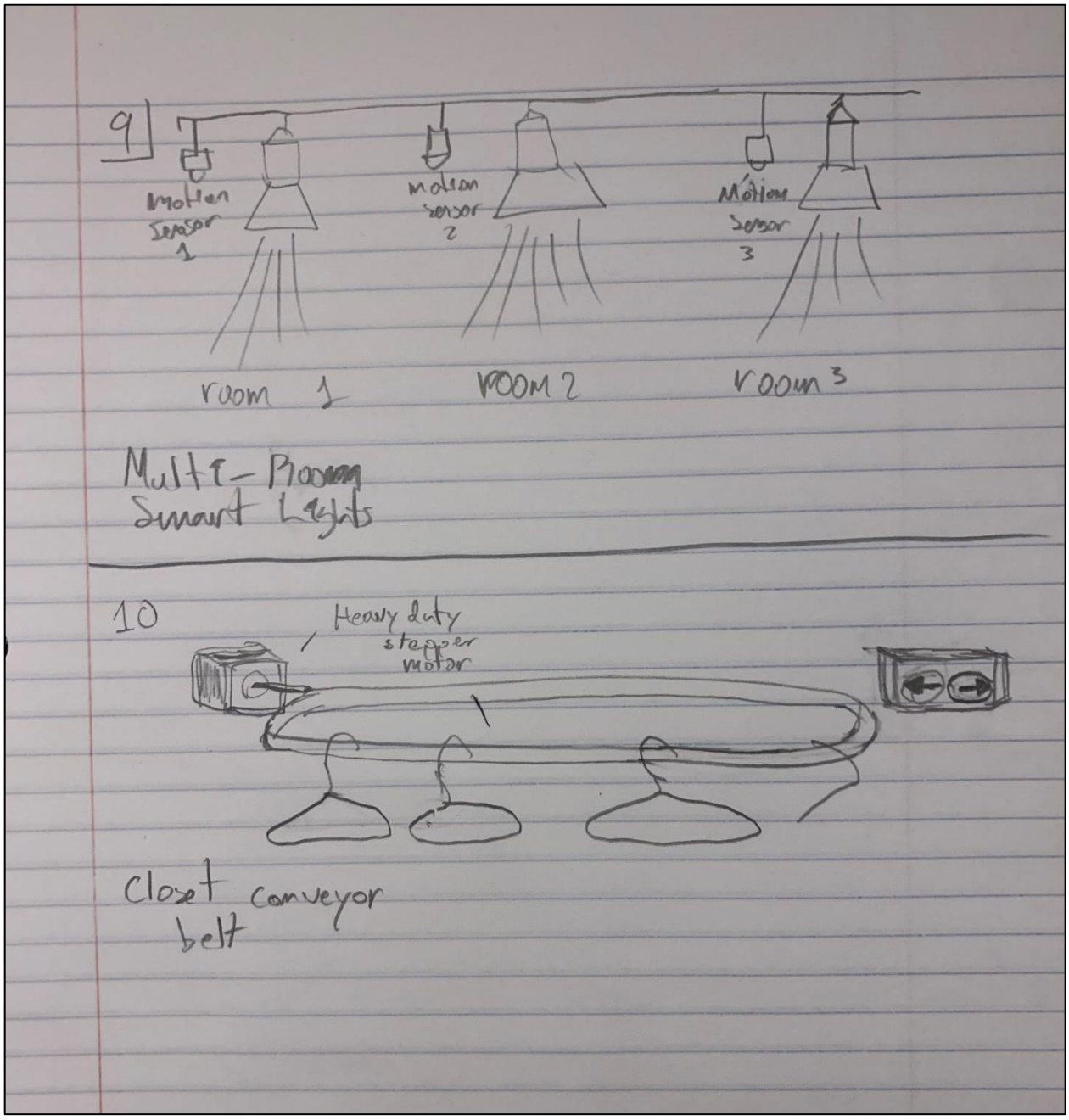
Journal Entry 2 – Sharing Ideas!

My 10 + 10 Final Project Ideas




3
microcontroller + relay
Lamp/ fan/ s
Voice / Clap activated Lamp of fan
120 V AC Wall outlet
4
Motion sensor
microcontroller
120 V
Arduino
relay
Motion sensor to control lamp / environment depending on presence
5
Curtain
Photoresistor
Automated Curtains
Servo
Micro controller
+ servo driver


6
Remote
IR diode
servo
Micro controller
Remote-controlled curtains
7
LED strips
microcontroller housing
speaker
LED Sound Bar
8
Mirror
LCD Display
shows temperature, weather updates, class
power supply + microcontroller
"SMART Mirror"


9
motion sensor 1
motion sensor 2
Motion sensor 3
room 1
ROOM 2
room 3
Multi-Room Smart Lights
10
Heavy duty stepper motor
Closet conveyor belt

5 + 5 Observations + Interactions with my Redesigned Business Card

Others thoughts on the current design:

1. The copper/rose gold color scheme is elegant and eye-catching 😊
2. The minimalist design with ample white space looks modern and clean
3. The circular cutout adds a unique, memorable element to the card.
4. The card includes essential information without appearing cluttered.
5. The use of different shades for the two halves creates a nice contrast.

Potential improvements:

1. Add a brief tagline or job title to clarify your profession or services.
2. Incorporate a small logo or icon to enhance brand recognition instead of circular cutout.
3. Consider using a darker cut for improved readability on “SWE” and especially for the smaller text.
4. Explore adding subtle texture or pattern to one half for added visual depth.
5. Perhaps flip the positions of the dark patch and the personal information section.

3 Pitches, 1 Modular Home Automation Box

To English Major

Hey there! I'm an Emory student with a passion for hardware tinkering. Imagine giving your ordinary appliances a voice in the digital world – that's what my product does. It's a smart box that connects two regular electrical devices to the internet, letting you control them from anywhere using just your phone. As a writer, you could set the perfect ambiance for your creative sessions or ensure you never leave the coffee maker on again. The coolest part? It's all about conscious living – you can check status and turn off devices remotely, saving energy. It's like writing a new chapter in home automation, blending technology with environmental responsibility.

My dad, who is a Nuclear Engineer

Hello, I'm an Emory student passionate about hardware projects. My smart box tackles a common IoT challenge: integrating legacy 120V devices into smart systems. I've designed a modular automation box with one input (the common wall socket) and two controllable outputs (meant for wall plugs), using a microcontroller and high-voltage relays. It's controlled via a mobile app or HTTP requests, allowing seamless integration with existing smart home setups. The key features are its plug-and-play nature and remote accessibility – users can monitor and control devices from anywhere, promoting energy efficiency. As an engineer, you'll appreciate its potential for expansion, like adding power monitoring or voice control. It's a neat solution bridging old and new tech while addressing environmental concerns.

Math + Bio Major (Final Pitch)

Ever left home wondering if you turned off the iron or left the AC running? In our increasingly connected world, many of our everyday appliances are still frustratingly "dumb". My solution is a modular automation box that transforms ordinary 120V devices into smart, energy-efficient appliances. It controls two devices via an app or web requests, making them accessible from anywhere. Imagine reducing your energy bill and your carbon footprint by easily managing your appliances remotely. This versatile tool works for both homes and labs, automating experiments or simply giving you peace of mind. As an Emory student passionate about hardware, I've designed this to be user-friendly and environmentally conscious. Ready to make your home smarter and greener?