**Fade LED**

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**RBT211 – Arduino Embedded Programming**

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**Engineering Notebook 5**

I have tried this project for at least two days now and I’m no closer. Apparently, I don’t understand some of this project. I did fine with the part of the project that was done in class. I couldn’t figure out how to make the second LED blink at half brightness. I tried rereading some of the book and I still have a hard time understanding. I got some hints from Casey, and it still didn’t click. He suggested ChatGPT and I have been trying to get it to give me a good program I could use. It seems I can get one part of the program to work on one or the other, but not both at the same time. I have tried different iterations in ChatGPT, and some would come out with Arduino IDE code while others were in the correct code, from what I noticed. I even had a couple come out with both syntax. I have worked on this for hours and I don’t think I’m any closer than when I started. I know it has to be something I haven’t tried but I don’t know what I haven’t tried. The solution is probably simple and I’m over thinking it. I’m also bad at “if” statements and while loops.

The funny thing is that sometimes I could get both lights to work, not correctly, but work, and other times only one of the lights would work. The only thing that was most consistent is that the fading light would work more than the blinking light at half brightness.

I have made three different projects in hopes I can merge at least two of them and make it work, but that didn’t happen. The first Fade\_LED is the one we did in class and the one I tried many other iterations to the point that I couldn’t remember what I could delete to clean it up some. The other two are attempts with ChatGPT and a hopeful merge. That didn’t happen either. It is too late to continue because I have to work in the morning. I am turning in what I have, the mess that it is. I am not understanding something and this is what is frustrating. I have no idea what to do next to get that light to blink at half brightness.

I have a video showing something happening. Three projects tried to do the same thing and failed.

<https://youtu.be/rGrG4IBCKHE> - link to video

The very last one was an attempt to have the program blink the light at half brightness.

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