

Dear recruiter,

I'm Emma, and I'm currently seeking a Fall 2021 internship position (September to December). I understand that the job posting is for July to December, but I thought I would apply anyways because I'm very interested in working for Signify. I am a Philips Hue power user (and recommend them to all of my friends) and enjoy the characterization and implementation of sensors, especially for a product that I love.

I have broad experience co-op in the use, testing, characterization, and debugging of LED-related sensors and systems. I spent a year on Apple's iPhone team, where I worked on the validation of the phone's ambient light sensor. I learned about the characterization and measurement of light (including lux calculations and optical/electrical interference), and helped to debug sensor-related issues that arose in validation. One of my previous internships was at a company called Nytrix Inc. that designed touch-frames using infrared LEDs and photodetectors to detect optical position. At this internship, I designed the schematics and PCB layout for a 31.5" touch frame, keeping in mind the mechanical constraints of the infrared LEDs.

As a side project, I designed and prototyped an LED array that is controlled by a pressure-sensitive resistor, using multiple colors of LEDs that required tuning to ensure uniform luminance. I also designed an IR receiver and transmitter that could be implemented into a variety of wireless projects.

I believe that I would be a good fit for Signify because I am a quick, enthusiastic learner who has the technical and collaborative skills required to succeed. I would love an opportunity to work and learn at Signify to further develop my hardware and problem-solving skills. Please see my website, [emmablatt.com](http://emmablatt.com), for examples of my circuit and PCB design work.

Thank you for your consideration.

Best,  
Emma Blatt