HI, Today I want to talk about embedded system in a mouse. I got my first gamming mise in my freshmen year at here at Miami. Before that, I had a mouse from Walmart worth maybe like 10 boxes. It was functioning pretty well until one day, I lost 8 games of CS-go in a roll. Then I am pretty sure it is Brocken. So, I start to search for a gamming mise. The best kind of gamming mise. I found many brands out there. Razor, Corsair, Asus ROG and during my research, I noticed that there is one brand which is mentioned over and over that is the logistic G502. it has a wide range of dpi which from 200 up to 12000. Well designed custom keys and Fancy LEDS.

ok, I get that. But what makes it the best among all those other brands? What is inside that makes it so different? To learn about what’s inside a gamming mouse, I matched many mouse disassembly videos on YouTube. I realize that a good mouse must have a great mother board and an accurate Optical Sensor. So today, I want to focus on the optical Sensor part. The optical Sensor in the mouse can detect the reflection of the lights and convert it into a digital signal. that’s why your mise might not give continuous response if you are using it on a glass table. The Optical Sensor that my G502 had is the best kind at that time. The module serious number of the sensor is PMW3360 and that is the block diagram for it. High system Clock rate and frame rate guaranteed its accuracy. Which means that it is less likely to lost track when you move around. With power consumption under 3.3V, PMW3360 become the best mouse optical sensor at that time. That's it for my presentation, question?