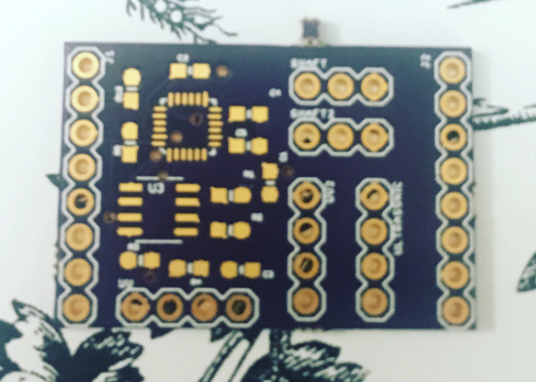
Assembly the custom pcb

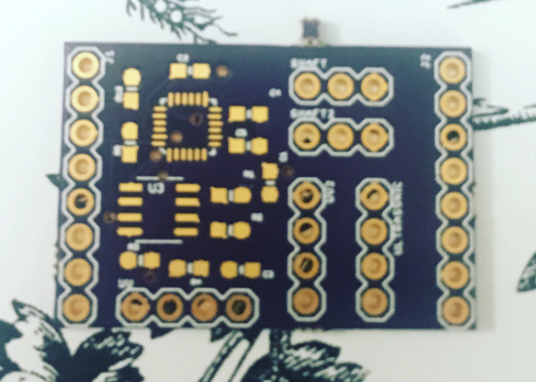
Introduction:

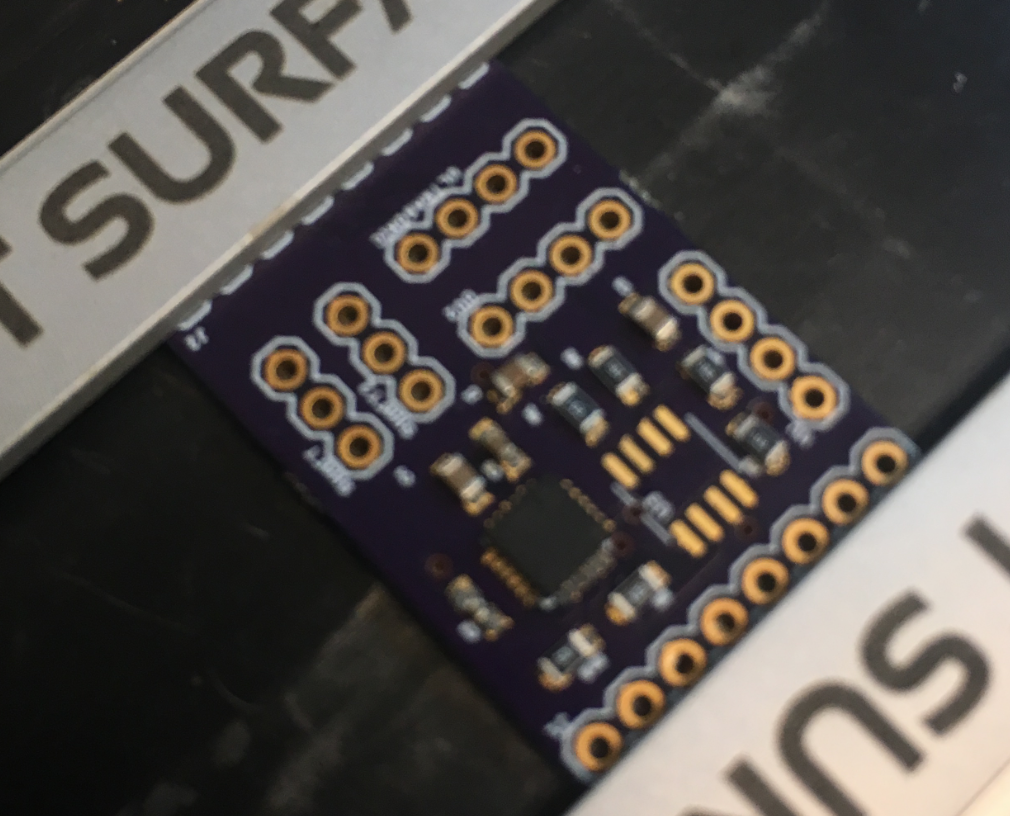
The custom PCB is for us to use less wire and clean and neat as possible and this the example of the small custom Pcb made and manufactured by osh park. In this PCB has 13 surface mount component and seven through-hole parts l integration and testing of it. Professor wants us to build the PCB and implemented and integrated into the three-dot board, which is another custom pcb(microcontroller). From that Created the design in eagle software and had him to review it for approval.

Body

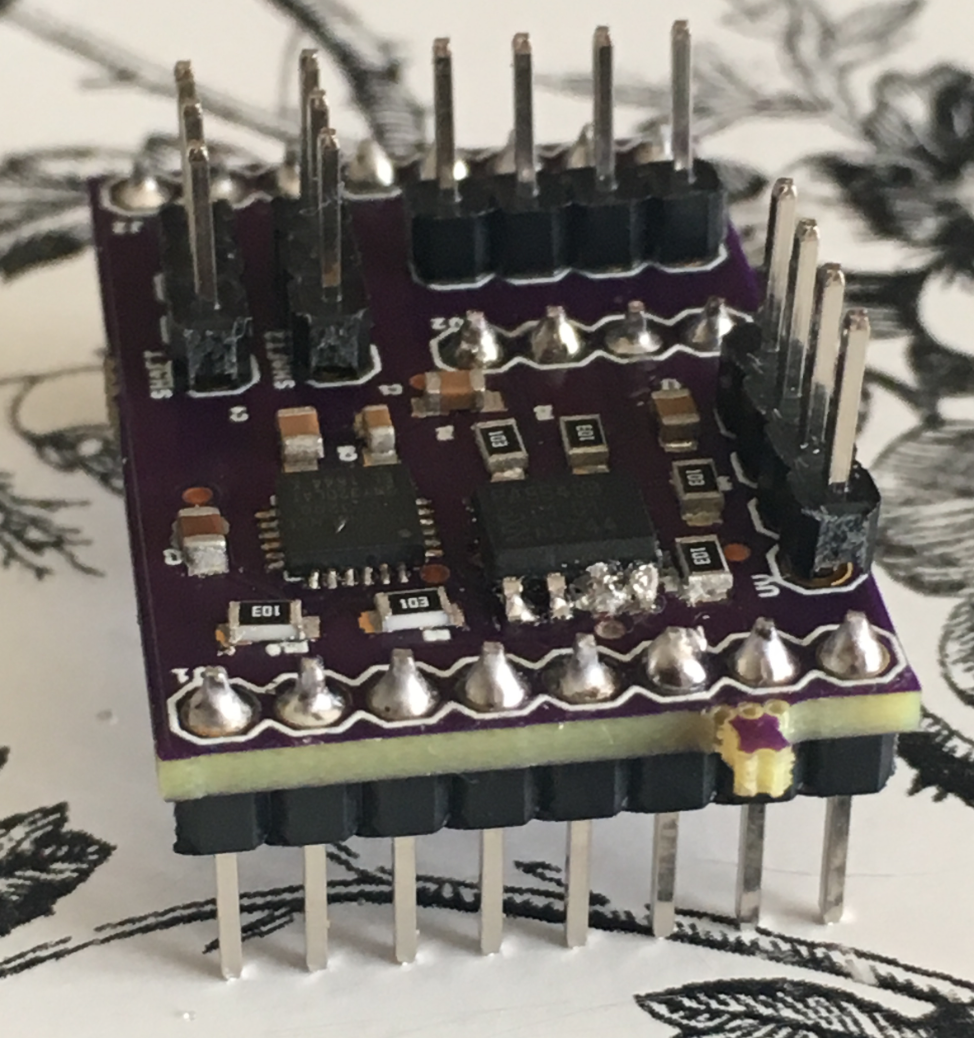
In this image has the surface mount and through the hole as per our requirement. For the project, we are using ultrasonic two UV sensor and two shaft encoder. As well as the gyroscope and the i2c expander for the UV sensor. The journey of getting the printed was rather quick because we had to pay extra for the service and the shipping so we could get it on time.





In this image, it shows the surface mount is placed on the board. It was my very first time having to surface mount components, but I got lucky and my division manager helped me. Although I could have first assembled all the parts one of my parts I was waiting for it to arrive, so I did that later on with heat gun. I never use heat gun before, but I looked at few youtube to get a better picture then I use a heat gun and attach my last surface mount which it was i2c expander.

In this picture shows the complete version of the board I solder the rest of the male headers. After that, I use the multimeter to see the continuity test to see if there is any short circuit. Afterward, I have to mount this into the new version of the three dot board.



Conclusion:  
 Overall I learn lot in this class like how to time management, keep working till you get the answer communicate with others.

Shweta Hebalkar