

**NAME :** Canoy Hail B.  
**SECTION :** CPE11S1

## **Analysis of Engineering Design Process**

- The group of students wants to help deaf and mute community members by inventing a glove that can translate Filipino Sign language into a sound or word they can hear. The challenge of them making this project is pressure and the limited resources because they are still students and they are doing this for school purposes. They researched more about this project and found out that it is already made abroad. They researched on what to use on the gloves, time passed they figured it out and chose flex sensors for capturing finger bends and MPU-6050 for hand rotation they had difficulties getting resources and finding what to use because they needed to think about its price and quality. They finally created a prototype after some time and it works, as shown in the video the gloves can already convert hand signs into voice, although they tested it with limited words it actually received good feedback from deaf and mute people. For me the things they should improve on are the design of the gloves, like it should be water proof, easier to wear, less wire to show for aesthetic purposes and most of all make it comfortable to wear. They should keep testing the gloves to improve it.



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