

# *Optical sensor sensing dependance: surface texture, materials, gloss, color, brightness and so on*

*Mentor: Eileen Wu*

*Location: Hsinchu, TW*

*Duration: 6 months*

## **Overview**

Most of the electronic products cosmetic inspection were carried out by visual inspection while the multiple angular or surface were hardly by automatic inspection. The labor intensive not only caused higher cost but also some defects may not fully filter out due to different inspector or criteria. Otherwise, painting parts' defect might ascribed paints uneven, discoloration, orange peer, pinhole, particles, scratch and etc also increase the inspection difficulty. For this research, the candidate would cooperate with Logitech internal (CMF, PQA, TDE and so on) and external partners (school, research institute, ...) to check the feasibility of Automated Optical Inspection (AOI) for 3D parts.

## **Objectives & main deliver**

- Assist cross functional teams coordinate
- Defects parts optical data collection
- Evaluation report of API for 3D electrical parts
- AOI Prototype

## **Knowledge/Skills**

- Bachelor or graduate degree of Mechanical engineering, Electrical engineering, Computer science & Information engineering
- Be able to communicate in English with foreign, in writing and speaking
- Willing for communication with different functions
- Familiar with automation, optical inspection and similar field