

The master thesis proposals by M. Sefan Van Vaerenbergh

1) Comparison study between the Line Spread Function (LSF) and Edge Spread Function (ESF) for the determination of the Modulation Transfer Function (MTF). MTF is used to quantify the quality of an optical element or system and it is highly demanded for camera applications as autonomous driving systems. The comparison between LSF and ESF is required for the optimisation of the hardware used for the quality inspection of the ADAS area of the automotive glazing.

2) Analysis of thermo-mechanical properties of PLA/ABS made parts for laboratory and production applications in the automotive industry. Investigation of treatment processes (as hardening, coating, etc..) enhancing PLA/ABS properties and comparison with the common plastics/metals (PVC, Aluminium, Steel, etc..) used in the industry.