

RoFin Gloves

6 key-point spheres



active optical labeling



mass finger indication



energy-efficient & safe



wearable cheap COTS gloves

User Operation

at flexible distances



single/multiple hands



different environment



during day & night/dark



broad use cases & situations

RoFin Reader

Images Capturing



Yolo5 Label Prediction



Group Fingers into Hands



Identify Fingertips

3D Trajectory Generation



Get Inside-frame X/Y samples



Depth Info Z Calculation



Parse 3D Info

Form Projected Palm Plane



Find Finger Planes



Bend Each Finger



Reconstruct Pose

Cross-frame Processing



Letter/Digit Recognition



Xamera App Development



Virtual Writing