

Research on manufacturing a smart navigation device for the visually impaired

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Abstract: In the context of an increasing number of visually impaired people needing safe mobility support, this project aims to research and develop an intelligent path-finding device system. Through the combination of sensor technology theory and electronic engineering experimentation, we aim to build a solution that helps visually impaired individuals gain more confidence in orientation and safe movement. The expected results will provide practical applications for the visually impaired community, contributing to improving their quality of life.

Keywords: path detection device, sensor technology, visual impairment, mobility assistance, intelligent system