In today’s automotive landscape, vehicles are equipped with advanced technology to enhance passenger safety. Millimeter wave radar can detect objects through rain, snow, and fog, but struggles in dense environments with impaired sightlines. To improve robustness, sensors can be integrated into a distributed network. We demonstrate sensor fusion using a USB camera and a Texas Instruments MIMO radar board. Computer vision techniques enable real-time object detection, with radar data superimposed onto the camera feed. Object tracking is then performed using a multi-node system with two radar nodes and an external server.

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