

EE'18

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Radar (RAdio Detection And Ranging) is the process of sending electromagnetic waves from a transmitter, receiving the echoes of those waves at a receiver, and studying what data was collected. Personal radar use was, at first, hindered by very large antennas and expensive equipment. However, with new, cheap technology capable of operating in the GHz range (\$10^9\$ Hz), small radars can be constructed by nearly anyone. We constructed a 'Coffee Can Radar' and, using the radar, we successfully detected the speed of nearby objects and measured the distance from the radar to moving objects in the surrounding area.

