

Synthetic Aperture Radar Imager



Team 18

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Aim: Use Synthetic Aperture Radar (SAR) technology to remotely detect and image metal objects for weapon detection applications

Background	Goals	Results
 Create a weapons metal detection system for homeland security 2nd Generation Project 	<section-header><section-header><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header>	 Reduced weight by 50% Horn holders have 3 degrees of freedom Structure has negligible deflection
Structure		Future Work
		 Custom Fabrication Wall-mounted System

Horn Holders



- ► Easily collapsible
- Improve horn adjustment fidelity