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describe the elements that make up a guided weapon system. discuss the principles involved and the design constraints on guided weapon air

frame, propulsion, war-head, control and guidance systems and how these subsystems interact with one another. explain the principles of radar, IR and laser technology and how these technologies are used in guided weapon systems.

Missile guidance refers to a variety of methods of guiding a missile or a guided bomb to its intended target. The missile's target accuracy is a critical factor for its effectiveness. Guidance systems improve missile accuracy by improving its Probability of Guidance (Pg). A guided bomb strikes a practice target

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It is a 24-hour, all-weather guided weapon system with a primary role of providing limited area air defence cover against fixed wing aircraft, helicopters, Unmanned Air Vehicles (UAV) and cruise missiles. It has the capability of engaging two targets at once. Rapier FSC is compact, mobile and air portable, making it suitable for worldwide operations.

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This - "Guided Weapon System 20" - was the initial system, which was intended to replace the twin 40 mm Bofors Mark V gun and its associated fire-control systems. The original director was based on the

STD (Simple Tachymetric Director) and was entirely visual in operation.

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Guided missiles work by tracking the location of the moving target in space by certain methods (eg. using a radar or following its heat signature), chasing it down and then finally hitting it with accuracy. Guided systems in missiles can be of various types, which serve different operational purposes. Missiles have been around for quite some time now.

Missile Guidance and Control Systems: How Do Guided ...

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GUIDED WEAPONS

The Aegis Combat System (ACS) is an advanced command and control (command and decision, or C&D, in Aegis parlance) and weapon control system (WCS) that uses powerful computers and radars to track and guide weapons to destroy enemy targets. The ACS is composed of the Aegis Weapon System (AWS), the fast-reaction component of the Aegis Anti-Aircraft Warfare (AAW) capability, along with the Phalanx Close In Weapon System (CIWS), and the Mark 41 Vertical

Launch System.

[Aegis Combat System - Wikipedia](#)

The Advanced Precision Kill Weapon System (APKWS) also known as Laser, infrared Guided Rocket (LiGR) is a design conversion of Hydra 70 unguided rockets with a laser guidance kit to turn them into precision-guided munitions (PGMs). Ugroza (Russian: Угроза, meaning "menace") is a precision-guided weapons system made in Russian Federation.

[Precision-guided munition - Wikipedia](#)

The Combat Shotgun is a semi-automatic, tubular magazine-fed weapon cambered for the 12 gauge cartridge. The operating system is the ARGO (Auto-Regulating Gas Operated) Twin (two gas pistons) System with a rotating bolt head and dual locking lugs. It is fitted with an EOT tech sight for use day or night and a fixed iron sight.

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The earliest guided missiles used simple command guidance, but within 20 years of World War II virtually all guidance systems contained autopilots or autostabilization systems, frequently in combination with memory circuits and sophisticated navigation sensors and computers. Five basic guidance methods came to be used, either alone or in combination: command, inertial, active, semiactive, and passive.

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