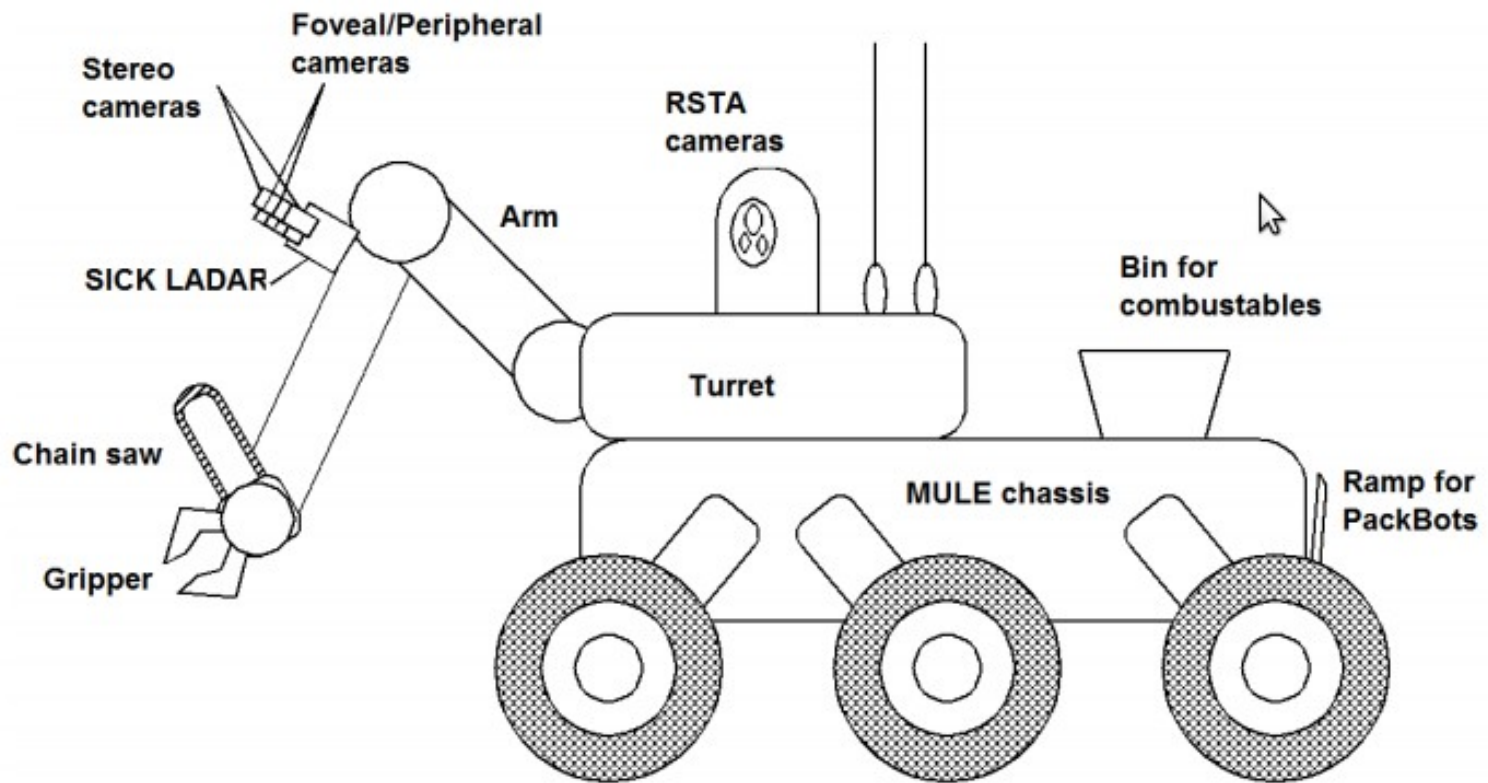


Corpse-eating robot



EATR - ENERGETICALLY AUTONOMOUS TACTICAL ROBOT

- Constructed by Robotic Technology Inc. and Cyclone, sponsored by DARPA
- Purpose: develop and demonstrate an autonomous robotic platform able to perform long-range, long-endurance missions without the need for manual or conventional re-fueling.



Self feeding

- It can find, ingest, and extract energy from biomass in the environment (and other organically-based energy sources)
- It can use conventional and alternative fuels when suitable




Why to distinguish between grass and human body

- Ronald C. Arkin, director of the Mobile Robot Laboratory at Georgia Tech designing ethical guidance software for battlefield robots
- ethical control and a reasoning system potentially suitable for constraining lethal actions in an autonomous robotic system so that they fall within the bounds prescribed by the Geneva Conventions, the Laws of War, and the Rules of Engagement.



The Book - Governing Lethal Behavior in Autonomous Robots

- Arkin's "rules" end up altering Asimov's rules:
 - Engage and neutralize targets as combatants according to the ROE.
 - Return fire with fire proportionately.
 - Minimize collateral damage -- intentionally minimize harm to noncombatants.
 - If uncertain, invoke tactical maneuvers to reassess combatant status.
 - Recognize surrender and hold POW until captured by human forces.
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DARPA SELF

- Self-Explanation Learning Framework
- Systems that can participate in their own construction.
- The system might know the requirements for various tasks in its repertoire, and it may try to perform those tasks to verify functionality.



Links

- [DARPA SELF](#)
- [Robot land-steamers to consume all life on Earth as fuel](#)
- [Eatr](#)
- [EATR Sniper Bot Refuels By Consuming Human Bodies](#)
- [Teaching Robots the Rules of War](#)

