



Stone Aerospace is a distributed think tank specializing in AI-controlled, autonomous intelligent systems. Founded in 2001 by former national lab group leader Dr. Bill Stone, we have developed and fielded generations of unmanned underwater vehicles (UUVs), robotic ice penetrators (cryobots), and computer-controlled closed-cycle life support systems to some of the world's most remote places in the name of science, exploration, and national security. Our SUNFISH AI-behavior-based UUV represents the world's most sophisticated autonomous underwater system - the first to implement real-time 3D simultaneous localization and mapping as part of its navigation engine: it has already successfully conducted numerous inspection, mapping, exploration and intervention field operations in totally unknown 3D environments. Sunfish, Inc. was spun off from Stone Aerospace in 2019 to manufacture the device, provide field support, and license AI autonomy code. Our AI behavior-based code operates on full 6-degree-of-freedom platforms (whether UUVs, UGVs, UAVs, drones or spacecraft). We have also developed an extensive patent array, backed by field tested equipment, in the area of ultra high power laser energy transmission to remote, non-line-of-sight locations for ISR, remote autonomous power generation and vehicle operation, and hypervelocity launch capacity. Stone Aerospace is a certified Texas small business. We welcome collaborations with aerospace and defense primes and are available for online or in-person briefings.

Our IP: UUV Technology: RE46054; 9,873,495; 10,569,849; **Optical Energy Transmission and Laser-Powered Systems:** 9,090,315; 10,261,263; 9,383,520; 9,869,819; 10,705,296; 10,578,808; 9,850,711; 9,963,939; 10,518,854; 10,739,522; 10,739,523; 10,739,524; 10,739,525; **Launch and Reentry Systems:** 10,705,297; 10,081,446; **Life Support Systems:** 8,800,344; 8,770,195; 8,820,135, plus 10 other patents-pending in these related areas.

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