

Phelps2020 is a women-owned small business specializing in real-time video analytics, machine learning, and embedded vision solutions. Phelps2020 provides customized RDT&E services, quick prototyping/piloting, and capabilities on CPUs, GPUs, or FPGAs for real-time automated video analytics. Our latest demonstrated technology is a portable device that automatically enhances video from lower quality EO/IR sensors and video compromised by environmental factors to match the video provided by higher quality sensors and/or under better environmental conditions. Factors mitigated by this specific technology include low light, shadows, glare, highlights, blurriness, haze, fog, pollution, and bad contrast, all fully automated, requiring no parameter tweaking, and in a portable form factor. Our video enhancement solution was shown to increase face detection rates by multiple folds when compared to face detection from the original degraded video. Phelps2020's interest is in solving tough problems in surveillance and monitoring, identification and assessment, and targeting and intelligence. Phelps2020's principals possess over 60 years of combined experience and have published 5 books and over 400 papers in the areas of video analytics and machine learning. Our customers and partners include major US Government agencies and prime defense contractors.