



WSTIAC Success Story

MK48 Ground Mobility Vehicle (GMV) Weapon Mount

[<http://wstiac.alionscience.com>]

Customer:	United States Special Operations Command (SOCOM)/Combined Joint Special Operations Task Force - Afghanistan (CJSOTF-A)
Challenge:	Combined Joint Special Operations Task Force Base Defense Operations Center/Personal Security Detail (CJSOTF DBOC/PSD) needed a capability that provided weapon choice versatility for vehicle mounted lightweight machine guns.
Approach:	WSTIAC worked with special operations warfighters in theater to provide CJSOTF DBOC/PSD with SME engineering analysis design and vehicle mount prototyping. With little modifications, WSTIAC rapidly designed, fabricated and tested a prototype using an existing M240G mount, already found within the field, to create a prototype weapons mount, which would allow feed to the MK48. After creating the prototype, WSTIAC performed preliminary hazard analysis to ensure safe integration.
Value:	WSTIAC was able to perform on the spot in theater innovation for CJSOTF-A. Future missions now have the capability and flexibility to utilize either the M240 or MK48 lightweight machine gun. This increased the warfighter's flexibility when addressing multiple types of combat missions and scenarios, while still utilizing the same vehicle platform. This has enabled faster and more dynamic mission response; better mission effectiveness by matching the appropriate weapon to the mission, and saved lives by allowing the warfighter to have the correct weapon available, for the mission at hand. By

	conducting the design analysis and prototyping in country, and receiving direct warfighter feedback and input, WSTIAC has saved the DoD innumerable resources in dollars and hours and ensured warfighter safety and effectiveness.
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