

*The Department of Engineering Management,  
Information, and Systems*

*Would like to announce....*

*Maximizing Financial Benefit of Lean Six Sigma  
Projects through Optimized Selection Criteria*

*Presented by  
Colin Wasiloff*



**Doctor of Engineering In Engineering Management Praxis  
Defense**

**Advisor: Dr. Eli Olinick**

**Thursday, January 18, 2018 at 3 p.m.  
Cullum Conference Room, 347 Caruth**

***Abstract:*** Every dollar saved by the US Army through Continuous Performance Improvement (CPI) efforts has the ability to impact our Warfighters' mission capability, probability of success, and survival. Lean Six Sigma (LSS) and Value Engineering (VE) projects are executed by the US Army to improve quality, reduce waste and process lead time, ultimately providing the ability to re-program budgeted dollars to better serve both the Warfighter and taxpayer. Current literature review and organizational benchmarking of how LSS projects are selected suggests an opportunity to optimize selection criteria with the intent to maximize financial benefit output of executed projects.

FY16 Lean Six Sigma project selection data and financial benefit output from the US Army is examined in this Praxis. The effect of seventeen project selection criteria on 119 completed Lean Six Sigma projects' likelihood of achieving a financial benefit of \$1M or greater are analyzed. Additionally, project selection criteria are analyzed to determine their effect on achieving the highest levels of readiness; an Army-specific metric. Organization-specific results are presented as well as a practical process, which are proposed for use by any organization – military or civilian.

***Bio:*** Mr. Wasiloff currently serves as the functional lead for Value Engineering and Lean Six Sigma at the US Army's Tank-Automotive Research Development and Engineering Center (TARDEC) in Warren, MI. As the US Army's 136<sup>th</sup> certified Lean Six Sigma Master Black Belt, Mr. Wasiloff is charged with leading the organization in saving taxpayer dollars by reducing waste in transactional and manufacturing processes through complex analysis and data-driven improvement recommendations. As the Program Manager for the Tank Automotive and Armaments Lifecycle Management Command (TACOM LCMC) Value Engineering Program from 2016-2017, Mr. Wasiloff reported a savings of over \$135M in Federal funding.

Mr. Wasiloff holds a BS degree in Physics from Alma College, and a MS degree in Engineering Management-Lean Enterprise from Eastern Michigan University. Mr. Wasiloff has also earned professional masters-level certificates from the University of Washington, Cornell University, University of Alabama-Huntsville, and Georgia Institute of Technology. Formal Lean Six Sigma and Design for Six Sigma certifications through Villanova University, the University of Michigan- Ann Arbor and the Department of Army have also been earned by Mr. Wasiloff. Mr. Wasiloff has been in the SMU DEEM program since Fall 2013.

***Everyone invited and welcome!***