

Overview

OVMX Consulting, LLC was founded in 2015 by Mindy (Jacobson) McCarrolle. Ms. McCarrolle's breadth of experience spans public, private, government and academic organizations primarily in the Aerospace and Energy sectors. Formally educated in Aerospace Engineering, Civil Engineering, Systems Engineering and Aviation, her professional experiences span more than twenty-five (25) years and incorporate relationships around the globe.

Honors

- Special Recognition Award from ULA CEO, Tory Bruno – Enterprise level accurate predictive modeling, 2021
- Optical Society of America Paul F. Forman Team Engineering Excellence Award - Advanced LIGO, Sept. 2016
- Special Breakthrough Prize as a member of the global LIGO Consortium - Fundamental Physics, May 2016
- NASA Group Achievement Award - NESC Composite Crew Module (CCM), Oct. 2010
- Exceptional Achievement - CALIPSO Beam Expander Optics recovery, Mar. 2005

Services

We have solutions to enable clients to be nimble and anticipate stakeholder needs in the following 5 disciplines.

In addition, we can provide training so that consistent client practices remain in place beyond the scope of any contract with OVMX Consulting, LLC.

1. Leadership:
 - International team building
 - Interdisciplinary team guidance *from cradle to grave*
 - Earned Value Management
 - Six-Sigma Project execution
 - Business Insights and Analytics
2. Design:
 - Piece-parts and Assemblies
 - Manufacturing and assembly drawings
 - Bills of Materials
3. Analyses:
 - Structures
 - Mechanisms
 - Opto-Mechanics
 - Multi-physics
 - Quasi-static thermal heat transfer
 - CFD
 - Processes
 - Prescriptive, Predictive, and Temporal modeling

4. Systems:

- Requirements Definition
- Technical Specifications
- Six-Sigma process implementation
- Interface Control Documentation

5. Testing:

- Sine and Random Vibration dynamic environments
- Quasi-static and Fluid environments
- High Power lasers [20 kW]
- High pressure environments [10 ksi]
- Ultra-high vacuum environments [10^{-7} torr]

Contact

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Publications

B. P. Abbott, R. Abbott, T. D. Abbott, M. R. Abernathy, F. Acernese, K. Ackley, C. Adams, T. Adams, P. Addesso *et al.* (LIGO Scientific Collaboration and Virgo Collaboration) *Observation of Gravitational Waves from a Binary Black Hole Merger*. Phys. Rev. Lett. 116, 061102 – 11 February 2016
DOI: <https://doi.org/10.1103/PhysRevLett.116.061102>

M. Jacobson, W. Chen, B. Rodini, Y. Flom, A. Posey. *Space Based Truss Design for Demise Using Graphite Epoxy and Metal Matrix Composites*. AIAA Space 2005 Conference · Aug 1, 2005

M. Jacobson, T. Iwasa, M.C. Natori. *Quantifying square membrane wrinkle behavior using MITC shell elements*. 8th AIAA Gossamer Structures Forum · Apr 15, 2004

M. Jacobson, R.B. Barclay, M.A. Greenhouse, D.B. Mott, S. Satyapal, T. King. *Simulation of an electrostatically actuated micro-machined Fabry-Perot etalon*. AIAA Journal · Sep 1, 2002