**William P. Lehman**

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**PROFESSIONAL EXPERIENCE:**

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| Sept 2009 – present | Economist | Hydrologic Engineering Center Water Resources Systems (CEIWR-HEC-WRS) |
| * Led Development of the Hydrologic Engineering Center’s Watershed Analysis Tool (HEC-WAT) software 2018 - Present * Led Development of the Hydrologic Engineering Center’s Flood Impact Analysis (HEC-FIA) Software. 2011-Present * Participated in the Emerging Leaders program in 2014 * Became Subject Matter Expert in flood damage reduction, risk assessment, and Monte Carlo analysis * Taught in more than three training sessions annually on consequence assessment and risk analysis * Contributed to the design and implementation of systems based lifecycle risk assessment models * Programmed a statistics library to assist in quickly making Monte Carlo models – for random data generation and summary processing. * Developed and implemented testing plans for more than five numerical modeling software programs * Developed a Risk Profile, Assessment, and Appetite for HEC * Presented Enterprise Risk Management to HEC leadership resulting in adoption of the practice of ERM (ISO Framework). * Created a Software Development Community of Practice * Created a Risk Management Community of Practice | | |
| July 2008 – Sept 2009 | **DA Intern Economist** | **Little Rock District USACE, South West Division (USACE-SWD-SWL)** |
| * Completed two-year training agenda in eighteen months. * Learned how to evaluate hydropower rehab projects through the Hydropower Analysis Center * Tested, validated, and improved HEC-FIA 2.0 earning me a position at HEC. | | |

**Technical Expertise\*:**

* Fluent in C# (3 years – preferred language), Java (4 years), Visual Basic (6 years)
* Experience withVisual Studio 11 – 17, NetBeans, and Eclipse IDE’s
* Expertise in Microsoft Office products
* Experience developing Enterprise Risk Management Risk Profiles for a medium sized government agency

**EDUCATIONAL BACKGROUND:**

M.S. (2019) Risk Management, Notre Dame University Maryland, Maryland

M.S. (2008), Economics, The Oklahoma State University, Stillwater, OK

B.A. (2006), Economics, The Oklahoma State University, Stillwater, OK

B.A. (2006), Mathematics, The Oklahoma State University, Stillwater, OK

**AWARDS:**

IWR Product of the Year Award 2011 (HEC-FIA)

IWR Scientific Achievement Award 2013 (HEC-FIA 3.0)

**PUBLICATIONS/PAPERS\*:**

Author (unpublished paper) Consequence Estimation for Complex Systems – 2011 ASCE

Author (unpublished paper) Life Loss Estimation for Dam and Levee Failures – 2011 3IWRDD

Author (unpublished paper) Looking Beyond Direct Economics – 2012 ICOLD

Author (unpublished paper) Problems in Lifecycle Consequence Estimation – 2016 FloodRISK2016

Author (unpublished paper) Indirect Economic Loss Estimation with HEC-FIA – 2016 FloodRISK2016

Author (unpublished paper) An Empirical Functional Approach to Depth Damage Relationships – 2016 FloodRISK2016