

Publishing References for Mr. Timothy G. Olson

Introduction

This purpose of this document is to provide a list of publications (i.e., articles, papers, presentations, tutorials, etc.) of Mr. Timothy G. Olson. The publications are organized by topic (on the left), by date (most recent publication first), and finally alphabetically.

Keynote Publications

- “Quality Benchmarking: Where is Your Quality?”, Olson, Timothy G., Keynote, ASQ 15th Annual Service Quality Conference (SQC), Las Vegas, NV, 2006.
 - “How to Conduct Aggressive Improvement Efforts and Rapidly Achieve Measurable Results”, Olson, Timothy G., ASQ 14th Annual Service Quality Conference, October 2005, Atlanta, GA.
 - “Defining Best-In-Class Processes and Procedures”, Olson, Timothy G., Keynote, ASQ 13th Annual Service Quality Conference, 2004, San Antonio, TX.
 - “Defining Processes in Expert Mode”, Olson, Timothy G., Keynote, China Information Technology Conference, 2002, Beijing, China.
 - “Aggressively Achieving CMM[®] Levels”, Olson, Timothy G., Keynote, China Information Technology Conference, 2002, Beijing, China.
 - “Tailoring Managing Change to Managing Improvement”, Olson, Timothy G., Keynote, India Software Engineering Process Group (SEPG) 2001, Delhi, India.
 - “The Management Commitment Process”, Olson, Timothy G., Keynote, Project Management Institute (PMI) Student Leadership Forum, St. Paul, MN, 2001.
 - “Quality: The Good, the Bad, and the Ugly”, Olson, Timothy G., Keynote, London, England, UK, UNICOM Seminar on Quality, 1998.
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Articles

- "Defining Short and Usable Processes", Olson, Timothy G., CrossTalk, June 2006.
 - “Developing Best In Class Processes at NASA”, Olson, Timothy G. and Kelly, John C., American Society for Quality (ASQ) Quality Progress Article, pp. 58-65, May 2005.
 - “Piloting Software Inspections to Demonstrate Early ROI”, Olson, Timothy G., Paper, Society of Software Quality, 1995.
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Best Paper Awards

- Best paper award from American Society of Quality (ASQ) in 2003:
- “Using a Process Measurement FrameworkSM to Rapidly Achieve Measurable Results”, Olson, Timothy G. Presentation, ASQ 13ICSQ, Dallas, TX, 2003.
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Publishing References for Mr. Timothy G. Olson, Continued

Aggressive Improvement Publications

Mr. Olson has helped organizations achieve improvement fast (e.g., CMM/CMMI Levels). The fastest success story was helping a business unit of Hewlett Packard (HP) to CMMI Maturity Level 3 in about 6 months (an average of a 4-year effort according to SEI data). Some success stories are below:

- “Rapidly Defining a Lean CMMI Maturity Level 3 Process”, Kellum, Julie, Tufail, Zia, and Olson, Tim, Presentation, NDIA CMMI Technology Conference, Denver, CO, 2006.
 - “How to Conduct Aggressive Improvement Efforts and Rapidly Achieve Measurable Results”, Olson, Timothy G., ASQ 14ICSQ, Orlando, FL, 2005.
 - “Aggressively Achieving CMM® Levels”, Olson, Timothy G., Keynote, China Information Technology Conference, Beijing, China, 2002.
 - “Aggressively Achieving CMM Level 3 in One Year”, Olson, Timothy G. and Sachlis, Maria, Presentation, SEPG 2002, Phoenix, AZ.
 - “Aggressively Achieving CMM Level 4 in Less Than One Year”, Olson, Timothy G. Presentation, SEPG 2001, New Orleans, LA.
 - “Aggressively Achieving CMM Level 2 in One Year”, Olson, Timothy G., and Lineback, Rich, Presentation, SEPG 2000.
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Benchmarking Related Publications

- “How to Make ‘Good Decisions’ Using a Best-In-Class DAR Process”, Olson, Timothy G., Vendor Presentation, 7th International Symposium of INCOSE, San Diego, CA, June 2007.
 - “Defining Best-In-Class Processes at NASA”, Olson, Timothy G. and Kelly, John C., Paper and Presentation, ASQ World Conference on Quality and Improvement, Seattle, May 2005.
 - “Aggressively Achieving CMM® Levels”, Olson, Timothy G., Keynote, China Information Technology Conference, Beijing, China, 2002.
 - “Affordable Software Quality Assurance (SQA) Audit Process for Small Groups”, Willson, Dean and Olson, Timothy G., Presentation, SEPG 2001, New Orleans, LA.
 - “Benchmarking F/A-18 Mission Computer Inspection Data”, Beeson, Dennis B., Olson, Timothy G., et al. Presentation, SEPG 1998, Chicago, IL.
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Publishing References for Mr. Timothy G. Olson, Continued

CMMI Conference Publications

- “Rapidly Defining a Lean CMMI Maturity Level 3 Process”, Kellum, Julie, Tufail, Zia, and Olson, Tim, Presentation, NDIA CMMI Technology Conference, Denver, CO, 2006.
- “Defining a Lean Configuration Management Process at NASA JPL”, Olson, Timothy G., NDIA CMMISM Technology Conference, Denver, CO, 2006.
- “How to Define Lean Processes That are CMMISM Compliant”, Olson, Timothy G., Tutorial, NDIA CMMI Technology Conference, Denver, CO, 2006.
- “How to Measurably Improve Your Requirements”, Olson, Timothy G., Tutorial, NDIA CMMI Technology Conference, Denver, CO, 2006.
- “Using Best Practices at NASA to Define a CMMI DAR Process That Accommodates Dissent”, Olson, Timothy G., Dyer, Larry, and Mulligan, Dan., NDIA CMMI Technology Conference, Denver, CO, 2006.\
- “How to Define Short and Usable CMMISM Based Processes”, Olson, Timothy G., NDIA CMMI Technology Conference, Tutorial, Denver, CO, 2005.
- “Using a Process Measurement FrameworkSM to Rapidly Achieve Measurable Results, NDIA CMMI Technology Conference, Tutorial, Denver 2005.
- “Rapidly Achieving ROI Using Early Defect Detection”, Olson, Timothy G., Presentation, NDIA CMMI Conference, Denver, CO, 2005.
- “Successful Verification and Validation Based on the CMMISM Model”, Olson, Timothy G., NDIA Systems Engineering Conference, San Diego, CA, 2005.
- “How to Define CMMISM Based Processes that are Short and Usable”, Olson, Timothy G., Presentation, NDIA CMMI Conference, 2004, Denver, CO.
- “Measurement Driven Project Management”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver 2004.
- “Measurably Improving Your Requirements Based on the CMMISM”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver, 2003.
- “Successful Verification and Validation Based on the CMMISM Model”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver 2003.
- “Staged or Continuous: Which Model Should I Choose?”, Olson, Timothy G., Presentation, NDIA CMMI Technology Conference, Denver, 2003.
- “Using CMMISM/SS to Manage COTS & MOTS Software”, Olson, Timothy G., Presentation, NDIA CMMISM Technology Conference 2002, Denver, CO.
- “How to Practically Improve Your Requirements Process Using the CMMISM Framework”, Olson, Timothy G., NDIA CMMI Conference 2002, Denver, CO.

Publishing References for Mr. Timothy G. Olson, Continued

Configuration Management (CM) Publications

- “Defining a Lean Configuration Management Process at NASA JPL”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver, CO, 2006.
 - “Software Configuration Management Planning”, Olson, Timothy G., et al. Presentation, SEPG 2000, Seattle, WA.
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Decision Analysis (DAR) Publications

- “How to Make ‘Good Decisions’ Using a Best-In-Class DAR Process”, Olson, Timothy G., Vendor Presentation, 7th International Symposium of INCOSE, San Diego, CA, June 2007.
 - “Using Best Practices at NASA to Define a CMMI DAR Process That Accommodates Dissent”, Olson, Timothy G., Dyer, Larry, and Mulligan, Dan., NDIA CMMI Technology Conference, Denver, CO, 2006.
 - “Using Best Practices at NASA to Define a CMMI DAR Process That Accommodates Dissent”, Olson, Timothy G., Dyer, Larry, and Mulligan, Dan., NDIA Systems Engineering Conference, San Diego, CA, 2006.
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Early Defect Detection Publications

- “Successfully Using Early Defect Detection to Achieve ROI”, Olson, Timothy G., Presentation, ASQ World Conference on Quality and Improvement, Orlando, FL, May 2007.
 - “Successfully Using Early Defect Detection to Rapidly Achieve ROI”, Olson, Timothy G., NDIA Systems Engineering Conference, San Diego, CA, 2003.
 - “Using Early Defect Detection to Demonstrate Early ROI”, Olson, Timothy G. and Barkhoff, Tammy, Presentation, SEPG 2003, Boston, MA.
 - “Performing Best-In-Class Inspections”, Presentation, Olson, Timothy G., SEPG 2001, New Orleans, LA.
 - “How to Improve Your Peer Review Processes”, Olson, Timothy G., et al., Tutorial, SEPG 1998, Chicago, IL.
 - “Benchmarking F/A-18 Mission Computer Inspection Data”, Beeson, Dennis B., Olson, Timothy G., et al., Presentation, SEPG 1998, Chicago, IL.
 - “World-Class Software Inspections”, Olson, Timothy G., et al., Panel with NASA, Raytheon, Motorola, and IBM, SEPG 1996, Atlantic City, NJ.
 - “Piloting Software Inspections to Demonstrate Early ROI”, Olson, Timothy G., Paper, Society of Software Quality, 1995.
 - “Piloting Software Inspections to Demonstrate Early ROI”, Olson, Timothy G., Presentation, SEPG 1995, Boston, MA.
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Publishing References for Mr. Timothy G. Olson, Continued

Lean Publications

Mr. Olson is an expert in defining lean processes that have high value and low cost of poor quality. The following are a summary of some of his papers and presentations.

- “Defining Lean Systems Engineering Processes and Procedures”, Olson, Timothy G., Presentation, 7th International Symposium of INCOSE, San Diego, CA, June 2007.
- “Rapidly Defining a Lean CMMI Maturity Level 3 Process”, Kellum, Julie, Tufail, Zia, and Olson, Tim, Presentation, NDIA CMMI Technology Conference, Denver, CO, 2006.
- “Defining a Lean Configuration Management Process at NASA JPL”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver, CO, 2006.
- “How to Define Lean Processes That are CMMI Compliant”, Olson, Timothy G., Tutorial, NDIA CMMI Technology Conference, Denver, CO, 2006.
- Olson, Timothy G., "Defining Short and Usable Processes", CrossTalk, June 2006.
- “Defining Best-In-Class Processes at NASA”, Olson, Timothy G. and Kelly, John C., Paper and Presentation, ASQ World Conference on Quality and Improvement, Seattle, May 2005.
- “How to Define Short and Usable CMMI Based Processes”, Olson, Timothy G., NDIA CMMI Technology Conference, Tutorial, Denver 2005.
- “Developing Best In Class Processes at NASA”, Olson, Timothy G., and Dr. John Kelly, ASQ Quality Progress, May 2005.
- “Defining Best-In-Class Processes and Procedures”, Olson, Timothy G., Keynote, ASQ 9th Annual Service Quality Conference, 2004, San Antonio, TX.
- “How To Define Short and Usable Processes”, Olson, Timothy G., Paper and Presentation, 13ICSQ 2003, ASQ, Dallas, TX.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Presentation, NDIA Systems Engineering Conference 2003, San Diego, CA.
- “Defining Software Processes in Expert Mode ”, Olson, Timothy G. Keynote, China SEPG 2002, Beijing, China.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Tutorial, India SEPG 2001, Bangalore, India.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Tutorial, SEPG 2000, Seattle, WA.
- “Defining Software Processes in Expert Mode”, Olson, Timothy G., Presentation, SEPG 1998, Atlanta, GA.

Publishing References for Mr. Timothy G. Olson, Continued

Managing Change Publications

- “Case Study: From Assessment to Assessment: How an Organization Planned and Attacked its Challenge of Software Process Improvement”, Stark, Bobbi, VanHofweggen, Kris, Olson, Timothy G., and Beadell, Tim. Tutorial, SEPG 2002, Phoenix, AZ.
 - “Tailoring Managing Change to Managing Improvement”, Olson, Timothy G., Keynote, India Software Engineering Process Group (SEPG) 2001, Delhi, India.
 - “Tailoring Managing Change to Managing Improvement”, Olson, Timothy G., Panel, SEPG 1997, San Jose, CA.
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Measurement Publications

Mr. Olson has authored a popular Process Measurement FrameworkSM that won best paper at the American Society for Quality (ASQ) 13th International Conference on Software Quality (13ICSQ) in 2003. Some papers and presentations that Mr. Olson has published include:

- “How to Define Practical Systems Engineering Metrics”, Olson, Timothy G., Tutorial, International Council on Systems Engineering (INCOSE), San Diego, CA, June 2007.
- “Using a Process Measurement FrameworkSM to Successfully Achieve Measurable Results”, Olson, Timothy G., Presentation, ASQ WCQI, Milwaukee, WI, 2006.
- “Using a Process Measurement FrameworkSM to Successfully Achieve Measurable Results”, Olson, Timothy G., Tutorial, NDIA CMMI Conference, 2005, Denver, CO.
- “Measurement Driven Project Management”, Olson, Timothy G., European SEPG Conference, London, England, UK, 2004.
- “Using a Process Measurement FrameworkSM to Rapidly Achieve Measurable Results”, Olson, Timothy G., Paper & Presentation, 13ICSQ, 2003, Dallas, TX.
- “Instrumenting Software Projects: A Case Study of Real World Projects”, Beeson, Dennis D. and Olson, Timothy G., Presentation, SEPG 2001, New Orleans, LA.
- “Benchmarking F/A-18 Mission Computer Inspection Data”, Beeson, Dennis B., Olson, Timothy G., et al. Presentation, SEPG 1998, Chicago, IL.
- “A Process Measurement FrameworkSM That Works”, Olson, Timothy G., Presentation, SEPG 1997, San Jose, CA.

Publishing References for Mr. Timothy G. Olson, Continued

Process Definition and Modeling Publications

Mr. Olson is an expert in process definition. He specializes in short, usable processes. The following are a summary of some of his papers and presentations.

- “Defining Lean Systems Engineering Processes and Procedures”, Olson, Timothy G., Presentation, 7th International Symposium of INCOSE, San Diego, CA, June 2007.
- “How to Define Lean Processes That are CMMI Compliant”, Olson, Timothy G., Tutorial, NDIA CMMI Technology Conference, Denver, CO, 2006.
- “Defining Short and Usable Processes”, CrossTalk, June 2006.
- “Defining Best-In-Class Processes at NASA”, Olson, Timothy G. and Kelly, John C., Paper and Presentation, ASQ World Conference on Quality and Improvement, Seattle, May 2005.
- “How to Define Short and Usable CMMI Based Processes”, Olson, Timothy G., NDIA CMMI Technology Conference, Tutorial, Denver 2005.
- “Developing Best In Class Processes at NASA”, Olson, Timothy G., and Dr. John Kelly, ASQ Quality Progress, May 2005.
- “Defining Best-In-Class Processes and Procedures”, Olson, Timothy G., Keynote, ASQ 9th Annual Service Quality Conference, 2004, San Antonio, TX.
- “How To Define Short and Usable Processes”, Olson, Timothy G., Paper and Presentation, 13ICSQ 2003, ASQ, Dallas, TX.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Presentation, NDIA Systems Engineering Conference 2003, San Diego, CA.
- “How to Define Usable Processes”, Olson, Timothy G., Tutorial, NASA 2002.
- “How to Define Usable Software Processes”, Olson, Timothy G. et al., Tutorial, SEPG 2002, Phoenix, AZ.
- “Defining Software Processes in Expert Mode ”, Olson, Timothy G. Keynote, China SEPG 2002, Beijing, China.
- “How to Define Usable Software Processes”, Olson, Timothy G. and Baker, Claudia. Tutorial, SEPG 2002, Phoenix, AZ.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Tutorial, India SEPG 2001, Bangalore, India.
- “How to Define Processes in Expert Mode”, Olson, Timothy G., Tutorial, SEPG 2000, Seattle, WA.
- “Defining Software Processes in Expert Mode”, Olson, Timothy G., Presentation, SEPG 1998, Atlanta, GA.
- “Defining and Tailoring Software Processes”, Olson, Timothy G., Tutorial, UNICOM Seminar on Software Quality, London, UK, 1998.
- “Defining Level 2 Processes from a Framework”, Olson, Timothy G., et al, Presentation, SEPG 1998, Chicago, IL.
- “Defining and Tailoring Processes That Work”, Olson, Timothy G., Tutorial, SEPG 1997, San Jose, CA.
- “A Software Process Framework for the SEI Capability Maturity Model”, Olson, Timothy G., et al., CMU/SEI-94-HB-01, 1994.

Project Management Publications

- “Data Driven Project Management”, Olson, Timothy G., Project Management Institute (PMI), Chapter, Iowa City, Iowa, 2003.
- “The Management Commitment Process”, Olson, Timothy G., Keynote, Project Management Institute (PMI) Student Leadership Forum, St. Paul, MN, 2001.
- “Developing a Commitment Process at Level 2”, Olson, Timothy G. et al. Presentation, SEPG 2001, New Orleans, LA.

Quality Audit Publications

- “Affordable Software Quality Assurance Audit Process for Small Groups”, Willson, Dean, & Olson, Timothy G., Presentation, SEPG 2001, New Orleans, LA.

Publishing References for Mr. Timothy G. Olson, Continued

Quality Strategy Publications

- “Staged or Continuous: Which Model Should I Choose?”, Olson, Timothy G., Presentation, NDIA CMMI Technology Conference, Denver, 2003.
 - “World-Class Quality Strategies”, Olson, Timothy G., Presentation, ASQ Biomedical Conference, Mpls., MN, 1996.
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Requirements

Mr. Olson is also an expert on requirements. Mr. Olson requirements experience includes being trained by and working with the CMM Level 5 NASA Onboard Shuttle Flight Software. Some of the Mr. Olson’s requirements presentations are:

- “Measurably Improving Your Systems Engineering Requirements”, Olson, Timothy G., Presentation, 7th International Symposium of INCOSE, San Diego, CA, June 2007.
 - “How to Measurably Improve Your Requirements”, Olson, Timothy G., Tutorial, NDIA CMMI Technology Conference, Denver, CO, 2006.
 - “Successful Strategies to Improve Your Requirements”, Olson, Timothy G., Presentation, NDIA Systems Engineering Conference, San Diego, CA, 2005.
 - “Measurably Improving Your Requirements Based on the CMMISM”, Olson, Timothy G., NDIA CMMI Technology Conference, Denver, 2003.
 - “Successful Strategies for Improving Requirements”, Olson, Timothy G., Paper and Presentation, 13ICSQ 2003, ASQ, Dallas, TX.
 - “How to Practically Improve Your Requirements Process Using the CMMI Framework”, Olson, Timothy G., Presentation, CMMI Conf. 2002, Denver, CO.
 - “How to Develop and Manage Requirements: Examples from Real World Projects”, Beeson, Dennis D. and Olson, Timothy G. Presentation, SEPG 2001, New Orleans, LA.
 - “Successful Strategies for Improving Requirements”, Olson, Timothy G., Presentation, SEPG 1998, Chicago, IL.
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ROI Publications

- “Rapidly Achieving Measurable ROI Using Early Defect Detection”, Olson, Timothy G., Presentation, NDIA CMMI Conference, Denver, CO, 2005.
 - “The ROI of Process Improvement”, Olson, Timothy G., Presentation, UTC SEPG Conference, UTC leadership Center, CT, 2003.
 - “Successfully Using Early Defect Detection to Rapidly Achieve ROI”, Olson, Timothy G., NDIA Systems Engineering Conference, San Diego, CA, 2003.
 - “Using Early Defect Detection to Demonstrate Early ROI”, Olson, Timothy G. and Barkhoff, Tammy, Presentation, SEPG 2003, Boston, MA.
 - “Piloting Software Inspections to Demonstrate Early ROI”, Olson, Timothy G., Paper, Presentation, SEPG 1995, Boston.
 - “Piloting Software Inspections to Demonstrate Early ROI”, Olson, Timothy G., Paper, Society of Software Quality, Paper, 1995.
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Some SEI Publications

Mr. Olson also was employed in the Process Program at the Software Engineering Institute (SEI) for almost 7 years. While at the SEI, Mr. Olson helped the first organizations to CMM levels. The SEI IDEAL model is based on early work that Mr. Olson performed at the SEI. The most popular SEI documents that Mr. Olson was an author are:

- “A Software Process Framework for the Capability Maturity Model”, Olson, Timothy G., Reizer, Neal, et al., CMU/SEI-94-HB-07.
 - “Conducting SEI-Assisted Software Process Assessments”, Olson, Timothy G., Humphrey, Watts S., et al., CMU/SEI-89-TR-07.
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