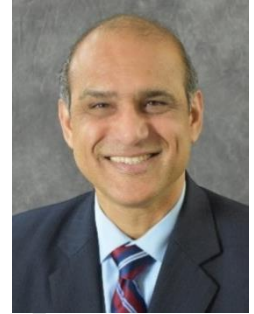




Hastak Consulting Services, LLC

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Prof. Makarand (Mark) Hastak, PhD, PE, CCP *Principal Consultant*



Dr. Hastak is the Professor and Head of the Division of Construction Engineering and Management as well as Professor of Civil Engineering at Purdue University. He has been involved with the construction industry for the past 30 years where he has conducted research, taught, and assisted industry in the area of construction engineering and management including scheduling, estimating, cost control, infrastructure management, risk management decision-making, warranties, construction safety, construction equipment, process improvement, modular construction, disaster risk reduction, and strategic planning. Dr. Hastak is a Professional Engineer (PE) and a Certified Cost Professional (CCP). As an academic, he has worked on numerous Construction Industry Institute (CII) projects over the past 25 years.

Dr. Hastak has authored/co-authored over 200 publications that relate to warranties, process improvement, project controls, capital rehabilitation planning, strategic planning, and decision-making based on his work. He has co-authored a widely used book on *Infrastructure Planning, Engineering, and Economics* published by McGraw-Hill (2006 and 2015). He has served on the Education Board of the Association for Advancement of Cost Engineering (AACE) for over twelve years (2004-2016). He edited two books for AACE, the 6th edition of the *Skills and Knowledge of Cost Engineering* (2015) and the 2nd Edition of the *CCP Certification Study Guide* published in spring 2016.

Litigation Support - Dr. Hastak offers expert witness services to attorneys representing both plaintiff and defendant. He has been deposed and served as an expert witness several times in the last year. His services include case reviews, written reports, depositions, arbitrations, and trial testimony as needed.

Areas of Expertise:

Construction Engineering	Factory Built Construction
Construction Management	Infrastructure Planning
Cost Overruns	Data Center Construction
Schedule Delays	Project Risk Management
Construction Safety	Disaster Recovery / Disaster Mitigation
Modular Construction	Trade Secret Misappropriation
Patent Infringement	Contracts & Warranties

Representative Examples of Engagement Experience

- Chief Quality Reviewer, Cambridge Innovation Consulting Ltd (2018-)
- Expert Witness Service, Procopio, Cory, Hargreaves & Savitch LLP (2017- 2018)
- Expert Witness Service, Sudekum, Cassidy & Shulruff, Chtd. (2017-)
- Principal Investigator, The Evaluation of Warranty Provisions on ODOT Construction Projects, Nov 2000 – December 2003, Ohio Department of Transportation (ODOT)
- Performance Assessment for P.T. Tripatra Engineers and Constructors, Jakarta, Indonesia through Purdue Enterprise Company (PEC) LLC and the EPCOM Consortium at Purdue University, July-Aug, 2016.
- Principal Investigator, CII PT 307–*Mitigating Threats of Counterfeit Materials in Capital Projects* (2012–2014)
- Principal Investigator, CII PT 241 – *Maximizing the Value of Construction in Pre-Project Planning* (2006-2008)
- Principal Investigator, CII PT 214 – *Cost Schedule Tradeoff* (2004-2006)
- Principal Investigator, CII PT 193 – *Radical Reduction in Project Cycle Time* (2002-2004)
- Principal Investigator, CII RT 154 – *Electronic Simulation in Construction* (1998-2001)
- Research Associate, CII RT 112 – *A Framework and Practices for Cost-Effective Engineering in Capital Projects in the A/E/C Industry* (1994-1995)
- Member, CII RT 90 – *The Future Needs of the Construction Industry's Worldwide Customers* (1992-1993)
- Training/Seminar Lead, Skills and Knowledge of Cost Engineering and other Project Management Topics, Organized by professional engineering organizations and private companies (1994-Present)
- Experience working as a Design Engineer and construction liaison for Industrial Projects.

Education and Certifications

- PhD Civil Engineering/Construction Engineering and Management, Purdue University (Indiana)
- Advanced Certificates in (1) Strategic Human Resource Management, (2) Financial Management, and (3) Executive Leadership, Cornell University (New York)
- MS Civil Engineering/Construction Engineering and Management, University of Cincinnati (Ohio)
- BE Civil Engineering, Nagpur University (India)