Jacob Je-Chian Lin 林之謙

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Education

2012-2013	University of Washington · Student Intern in Construction Management
2013	National Taiwan University · MS in Civil Engineering
	Specialty: Computer Aided Engineering
	Thesis (M.S.): Motion Planning and Coordination for Mobile Construction Machinery
	Advisor: Dr. Shih-Chung Kang
2010	National Taiwan University · Dual BS in Civil Engineering and Bio-Industry Communication and Development
	Thesis (B.S.): Accessibility Evaluation System for Site Layout Planning
	Advisor: Dr. Shih-Chung Kang

appointments

2013-   Water Resources Agency · Substitute Military Service

flood monitoring, part of the disaster response team, translate scientific articles

2012-2013   University of Washington · Research Assistant · iSafe: An Innovative iPad Application for Construction Site Safety Audit

develop and maintain the iPad application iSafe, design user interface, user experience study, paper writing

2012-2013   University of Washington · Research Assistant · Fall Protection Training Material for Non-English Speaking and Illiterate Construction Workers (OSHA)

develop and maintain the application in Unity

2010-2012   National Taiwan University · Research Assistant · BIM Project (Chien Kuo Construction CO. &Sinotech Engineering Consultants, LTD.)

using innovative technology to facilitate BIM integrate to the existing work-flow

2009-2011   National Taiwan University · Research Assistant · Composite Hazard Walkthrough System (Soil and Water Conservation Bureau)

develop a composite hazard walkthrough system in Unity, paper writing

2008-2009   National Taiwan University · Research Assistant · 4D Simulation System Development (CTCI Corporation)

develop and maintain a crane simulator Erection Director and a 4D simulation system Construction Director

honor & awards

2013	Honored Member of The Phi Tau Phi Scholastic Honor Society of the Republic of China
2012	Travel Fund for Attending ICCCBE from Foundation for the Advancement of Outstanding Scholarship
2011	Award of Engineering Technology of China Engineering Consultants INC.
2011	Award of Innovation Competition of National Taiwan University
2011	Travel Fund for Attending ConVR from Foundation for the Advancement of Outstanding Scholarship
2010	Award of Student Engineering Papers Competition of the Chinese Institute of Engineers

Publications

journal paper

Lin, J.C., Hung, W. H. and Kang, S.C. " Motion Planning and Coordination of Mobile Construction Machinery," *Journal of Computing in Civil Engineering.*(Under Review)

Lin, K.Y., Tsai, M. H., Gatti, U.C., Lin J. C., Lee, C.H. and Kang, S.C. "Developing an Information and Communication Technology Tool to Improve Safety Inspections: A User-Centered Approach," *Automation in Construction.* (Under Review)

Lin, J.C., Yang, C.E., Hung, W. H. and Kang, S.C. " Accessibility Evaluation System for Site Layout Planning – A Tractor Trailer Example," *Visualization in Engineering.*(Accepted on November 2013)

conference paper

2012   Lin, J.C., Hung, W. H. and Kang, S.C. (2012). " An accessibility evaluation and planning system for dynamic construction site," *Proceedings of 14th International Conference on Computing in Civil and Building Engineering (ICCCBE) Conference* , Moscow, Russia. June 27-29.

2011   Lin, J.C., Hung, W. H. and Kang, S.C. (2011). "A Walkthrough of Large Scale Composite Hazard," *Proceedings of 11th International Conference on Construction Applications of Virtual Reality (CONVR) Conference* , Weimar, Germany. November 4-5.

2010   Yang, C.E., Lin, J.C., Hung, W. H. and Kang, S.C. (2010). "Accessibility Evaluation System for Site Layout Planning," *Proceedings of 10th International Conference on Construction Applications of Virtual Reality (CONVR) Conference* , Sendai, Japan. November 4-5.

2012   Lin, J.C., Hung, W. H. and Kang, S.C. (2012). "Motion Planning for Mobile Construction Machine," *Proceedings of The 16th Symposium on Construction Engineering and Management*, Taichung, Taiwan. July 6.

2010   Yang, C.E., Lin, J.C., Hung, W. H. and Kang, S.C. (2010). "Accessibility Evaluation System for the Logistics of A Tractor-trailer," *Proceedings of The 14th Symposium on Construction Engineering and Management*, Taipei, Taiwan. July 6.

Articles

2011   Kang, S.C., Lin, J.C., Lee, C.H. (2011). "Using Autodesk Navisworks API to Customize the User Interface," *Construction News Record*, 348, 53-60. (Chinese Magazine)

technical skills

software programs:

Autodesk AutoCAD/Revit/Navisworks, Microsoft Office/Silverlight

programming languages:

C++, C#, CSS, HTML, Objective C, PHP

game engines:

Microsoft XNA, Unity 3D

language skills:

English/Chinese (fluent in speech, writing and reading)

German(conversational proficiency)