



### **Dr. Miklós Hajdu PhD**

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## **Summary**

Dr. Hajdu is a civil (hydraulic) engineer with over 25 years of professional experience in the area of construction engineering and management. After receiving his MS 1987 he gained admission to the doctoral school of the Faculty of Architecture at the Budapest University of Technology. He received his Ph.D degree in 1995. From 1990 he served as an assistant lecturer and from 1993 as an assistant professor. His teaching experience involved construction management, scheduling, cost estimation and operation research during this period. His research interest focused on scheduling and cost optimization of project in these years. In 1989 he developed the first scheduling application onto personal computer in Hungary, and in 1991 a computer application that could handle time-cost trade-offs. His Ph.D thesis discussed time-cost trade-off problems under different constraints.

In 1996 he spent a year in the Netherlands at the Delft University of Technology as a research fellow. The main result of his stay was a book on scheduling techniques published by Kluwer Academic Publisher. In 1997 he left the academic world and founded his own consulting company. Within this company he has developed the *ProjectDirector* software family which was successfully used for project planning and controlling the largest construction projects in Hungary. The company also offered planning and controlling services for construction companies. During this period he also has been the project manager or consultant of some of the largest Hungarian state financed projects as well (Construction project of the Budapest Sport Arena, project manager of construction of the facilities of the 2006 European Swimming Championship, project manager of the development of the new government district). In 2009 when he resigned from business the company was the largest in its field in Hungary. Doctor Hajdu partially went back to the academic life in 2003. Since then he worked as a head of the department of construction management. He solely has been concentrating on his academic pursuit since 2009. He is an active researcher and plays important role in organizing the scientific life in and out of Hungary. He has been organizing the Creative Construction Conference series - the largest conference on construction management in Europe since 2012. He was the founding president of the Hungarian Project Management Association (1997) and vice-president of the Hungarian Scientific Society for Building, chair of the organization committee of many Hungarian and international conferences. He also works as an editor or reviewer for numerous Hungarian and international journals. Presently he is the editor of the *International Journal of Construction Management*, member of the editorial board of *Automation in Construction*, *Organization Technology and Management in Construction*, *Magyar Építőipar* (Hungarian Construction Industry) and *Ybl Journal of Built Environment*. He has been a professor of research at the Budapest University of technology since September 2015. He actively publishes in internationally refereed journal. The number of his refereed publications exceeds one-hundred, including journal papers, books and edited books in Hungarian and English.

<b>Education</b>	Ph.D. in Construction Management	BUT* Faculty of Architecture	1995
	MSc in Engineering Economics	BUT Faculty of Architecture	1990
	MSc in Civil Engineering (major)	BUT Faculty of Architecture	1987
	Hydraulics (minor)	BUT Faculty of Civil Engineering	1987

\*Budapest University of Technology

<b>Language Skills</b>	Hungarian	Native	
	English	excellent	
	Russian – basic level	basic	
<b>Academic Positions</b>	Professor of Research	BUT	2015-
	Professor of construction management	SZIE YMÉK	2004-2015
	Associate professor	SZIE YMÉK	2003-2004
	Associate Professor	BUT	1993-1996
	Assistant Professor	BUT	1990-1996
<b>Previous Academic Managerial Positions</b>	vice-dean for academic affairs	SZIE YMÉK	2010-2012
	vice-dean for financial affairs	SZIE YMÉK	2007-2010
	head of department	SZIE YMÉK, Department of Const. Management	2003-2014
<b>Education Management Activity</b>	Program chair of the BSc in Project Management (Construction Management) program (SZIE)		2003-2015
	Program chair of MSc in Project Management program's Construction Management minor (SZIE)		2010-2015
	Program chair of BSc in Architecture program's Construction Management minor (SZIE)		2007-2015
<b>Teaching Activity</b>	Teaching construction technology and management, and related mathematics and informatics at SZIE, and earlier at the Faculty of Architecture and Faculty of Civil Engineering of BUT (Budapest University of Technology). Presently Dr. Hajdu is responsible for the subjects Construction Management I, II and III, Construction Technology, I. and II. ,which are taught in all three (Civil, Architecture, and Construction Management) programs of the Ybl faculty, and for Project Management and Enterprise Resource Planning Systems taught for construction management students.		
	<b>Construction Management MSc</b>		
	Scheduling I		2010-2014
	Scheduling II		2010-2014
	Project Management and Control		2010-2014
	<b>BSc in Architecture, Civil Engineering and Construction Management programs</b>		

Construction Management I,II and III	total 9 credits	2003-
Project Management	5 credits	2003-
Enterprise Resource Planning Systems	6 credits	2003-
Construction Technology I and II	total 8 credits	2003-

***Subjects taught in post-graduate programs***

Project Management and Control, MBA program, Corvinus University		1998
Project Management, TUB MBA program		1998
Project Management, TUB distance learning center		1996-2000
Project Management, Master-builder program at Ybl		2001-2004

***MSc in Civil Engineering (BUT)***

Computer-aided Production Management		1992-1994
Construction Management		1989-1997
Operational Research		1994-1995
Project Management		1997-1997

<b>Professional positions</b>	Owner, CEO of ELM Management Ltd. a company specialized on construction scheduling, monitoring and controlling consultancy	1996-2009
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**Professional Activity**      **Development of IT applications related to project management**

ProJack: development of a complex scheduling, cost planning and project control application		2010-
Project Director Enterprise: leader of the development of an Enterprise Resource Planning System (introduced at approximately 25 companies until 2009)		2001-2009
Transform: leader of the development of a project planning application for linear projects (introduced at approximately 25 companies until 2009)		2000-2009
Project Director Professional: leading the development of a project planning application (introduced at approximately 500 companies until 2009)		1996-2009

***Introducing Enterprise Resource Planning tools supporting project management***

Between 2001 and 2009 I helped introduce Project Director Enterprise, developed under my supervision for the technical management of project-based companies, in case of approximately 25 construction firms.		2001-2009
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***Project management, project planning and controlling***

Project management: Development of the new governmental district client: the Government of Hungary Governmental District Development Project Company		2007-2009
Project planning and control consultancy for BDR Metro project, project consultant		2008-2009
Project planning and control: Budapest Wastewater Treatment Plant, client: Hídépítő Ltd., project consultant		2007-
Project planning and control: M0 Northern Danube Bridge (Megyeri Bridge), client: Hídépítő Co., project manager		2006-2009
Project planning and control: M0 highway, section 4-31, client: Porr Budapest Ltd., project manager		2005-2007
Project planning and control: M0 highway, section 31-3, client: Porr		2005-2007

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Budapest Ltd., project manager	
Facility development for the 2006 European Aquatics Championship, project management, client: Ministry for Children, Youth and Sports Affairs	2003-2006
Technical consultant for Papp László Sport Arena, client: Ministry for Children, Youth and Sports Affairs	2002-2003
Hotel Andrassy (contract management, project management, quality assurance) client: ORCO Co.	2000-2001
Construction of ABN Amro bank branch offices (contract management, project management, technical supervision)	1998-1999
Project planning: National Theatre on Erzsébet Square 1995-1996, project planner	1995-1996

<b>Funded research</b>	<i>Image processing in architecture</i> GOP-1.1.1-11-2012-0098 Principal investigator (210million HUF)		2013-2014
	<i>E-learning in construction(developing e-learning materials for construction management 184 lectures) Principal investigator (84million HUF)</i>		2012-2014
	<i>Cost planning in PDM networks</i> OTKA F4112, principal researcher (3million HUF)		1992-1995
	Computer-aided site research (principal investigator: Prof. Géza Jándy) (3million HUF)		1987-1990
<b>Editorial reviews</b>	Editor	International Journal of Construction Management	2013-
	Member of Editorial Board	Automation in Construction	2013-
	Member of Editorial Board	Ybl Journal of Built Environment	2013-
	Member of Editorial Board	Organization Technology and Management In Construction	2012-
	Editor-in-Chief	Hungarian Building Industry	2010-2013
	Member of Editorial Board	Hungarian Building Industry	2009-
Member of Editorial Board	Építőmester (journal)	2003-2010	
Member of Editorial Board	Ybl Annual News	2003-2012	
Member of Editorial Board	Ybl Scientific Publications	2003-2010	
<b>Memberships in Scientific Organizations</b>	Co-President	Hungarian Scientific Society for Building (ÉTE)	2008-2014
	Representative of Hungary	ECEM (European Construction Engineering Management)	2004-2015
	Vice-President	Hungarian Project Management Association	1999-2002
	Founding President	Hungarian Project Management Association	1996-1999
	Member	Hungarian Operations Research Society	1993-
<b>Scientific Management Activity</b>	Creative Construction Conferences	Chair of the International Organizing Committee	2012-
	PBE Conferences (2010, 2012, 2014, 2016)	Member of the Scientific Committee	2010-
	OTMC conferences (2009,2011,2013,2015)	Member of the Scientific Committee	2009-

	27 <sup>th</sup> IPMA World Congress, Dubrovnik, CROATIA	Member of the Advisory Board	2013
	26 <sup>th</sup> IPMA World Congress Crete, GREEK	Member of the Scientific Committee	2012
	ÉTE 2011 Conference (Annual Conference of the Hungarian Building Association)	Chair of the Scientific Committee	2011
	ÉTE 2010 Conference (Annual Conference of the Hungarian Building Association)	Chair of the Scientific Committee	2010
	ÉTE 2009 Conference (Annual Conference of the Hungarian Building Association)	Chair of the Scientific Committee	2009
	IPMA World Congress, Budapest, HUNGARY	Member of the Scientific Committee	2004
<b>Scholarships</b>	Delft University of Technology (1 year) Netherlands, researcher		1996
	University of California, Berkeley, USA (2 months), Tempus Public Foundation, visiting lecturer		1993
	Ove Arup & Partnership (2 months), UK, internship		1987
<b>Thesis Supervision (only National award winner theses)</b>	Name: Title of the thesis		Year
	Award		
	Hock, Judit: Structural engineering works of metro line no. 4 at Keleti Railway Station		2009
	Best thesis award of Budapest Thesis Competition		
	Hajós, Zília: Tracking the technological changes in the construction of the metro station at Fővám Square from a controlling point of view		2009
	Best thesis award of Budapest Thesis Competition		
	Haffner, Péter: Project control of the construction of the Northern M0 Danube Bridge		2007
	Best thesis award of Budapest Thesis Competition		
	Sipos, Eszter: Feasibility study of a hotel on Árpád Road in Újpest		2007
	Best thesis award of Budapest Thesis Competition		
	Kocsis, Tamás: Management of the introduction of an integrated Enterprise Resource Planning System in precast plants		2006
	Best thesis Award of the Hungarian Building Association		
	Szántó, Csaba: Schedule for the construction of the Eastern sector of M0 between sections 4 and 31		2006
	Best thesis Award of the Hungarian Building Association		
	Szórádi, Csaba: Schedule for the construction of the Northern M0 Danube Bridge		2006
	Best thesis Award of the Hungarian Building Association		
<b>Publications</b>	In separate annex		