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Ms. Helena Bulbul

Lecturer, Dept. of EEE

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Education

University	Degree	Year	Field of Specialization
BUET, Dhaka	**B.Sc. Engg** (EEE)	1992	Microwave and Communication
BUET, Dhaka	**M.Sc.** (Continuing)		Power
### Employment Record			
University /College	**Designation**		
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Asian University of Bangladesh	Senior Lecturer		
United International University	Lecturer		
CSE, BUET, Dhaka	Teaching Assistant		
University Putra Malaysia, Malaysia	Research Assistant		
University of Malaya, Malaysia	Research Assistant		
University of Malaya, Malaysia	Research Assistant		
### Publications			

Publication	Papers Presented in Conferences.		
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1.	Kok Meng Yew, Helena Bulbul, Mashkuri Hj. Yaakob, MVCP: A Design Pattern Best Suited for OO Application Development,In Proceedings of SEA IASTED Conference, 1999, PP.47-52		
2.	Yew Kok Meng, Helena Bulbul, Mashkuri Yaakob, A Need for Distributed Object Computing in Managing Large Scale Information System: The University Information System Perspective,Proceedings of National Conference on Research and Development in Computer Science and Its applications, REDECS97, 27-29 November, 1997, Penang, Malaysia, PP.59-63		
3.	Mohammad Z. R., Helena B., Zaitun A.B., M. Yaacob, Object-oriented Modeling:an experience using the UML Approach, Prceedings of National Conference on Research and Development in Computer Science and its Applications,REDECS97, 27-29 November, 1997, Penang, Malaysia, PP.69-75		
4.	Zaitun A.B., Mashkuri Y, Mohammad Z. R., Helena B.,Infac: A Mechanism to achieve System Integration, Proceedings of 24th International Conference TOOLS Asia, Beijing, 1997, PP-269-276		
5.	Zaitun A.B., Mashkuri Y., Helena B.,A Survey of Systems Integration in Universities, Proceedings of the third International Annual Computer Society of Iran Computer Conference, 23-25 Dec., 1997		
6.	Mohammad Z. R., Helena B., Zaitun A.B., M. Yaacob, Object-oriented Modeling:an experience using the UML Approach, Prceedings of National Conference on Research and Development in computer Science and its Applications,REDECS97, 27-29 November, 1997, Penang, Malaysia, PP.69-75		
7.	Zaitun A.B., Sameem A.K., Mashkuri Yaacob, Mohammad Zahidur Rahman, Helena B., Software Requirements for Systems integration , Proceedings of the third International Annual Computer Society of Iran Computer Conference, 23-25 Dec., 1997, PP. 48-54.		
8.	Microcontroller Based Security System: An electronic application for fire monitoring and surveillance (pp. 33-37) Vol. 10, No. 11 November 2012 International Journal of Computer Science and Information Security		
9.	M. Fasiul Alam, H. Bulbul, M. Delwar Hossain: â€œMicrocontroller Based Security System: an Application for Fire Monitoring and Surveillanceâ€, IJCSIS Vol. 10, No. 11 USA, 2012 (accepted for the publication as a best category paper), paper ID:31101224		
10.	M. Fasiul Alam, H. Bulbul: â€œA Multichannel Telemetry System for Vivo Monitoringâ€, Global Engineering, Science and Technology Conference, December, 2012, Dhaka, Bangladesh (Accepted paper id: 315), sponsored by: Global Engineering Science and Technology, Australia and American Research and Publication International, USA.		
	M. Fasiul Alam, H. Bulbul: â€œAn Aspect for Global Health Monitoring for Biomedical Devicesâ€, International Scientific		

11.	Academy and Engineering Conference on ICT, Kuala Lumpur, Malaysia, Deceber, 2012. (Accepted paper id: K1212733)		
12.	M. Fasiul Alam, H. Bulbul: â€œThe Easiest Way to Interface Sensorâ€™s for Electronic Surveillanceâ€, International Conference on Communication and Electronics Informations (ICCEI 2013), BRUXELLES, BELGIUM. (Accepted paper id: I024)		
13.	M. Fasiul Alam: â€œHouse Monitoring System: A Wireless Application for Electronic Surveillanceâ€, Global Engineering, Science and Technology Conference, December, 2012, Dhaka, Bangladesh (Accepted paper id: 316), sponsored by: Global Engineering Science and Technology, Australia and American Research and Publication International, USA.		
14.	M. Fasiul Alam, H. Bulbul: â€œAn Economic Approach for Real Time Intrusion Detectionâ€, 2013 the second international conference on security and technology (ICSST 2013), April 1-2, 2013, Singapore. (Accepted paper id: ST 002)		
### Fellowship			
Teaching Assistant in BUET, Research Assistant in University Putra Malaysia and University Malaya, Malaysia			
### List of Conference			
ICDRETâ€™09, ICDRET12, ICDRET14			
### Research interests			
Electrical Machines, Power System, Embedded system and Robotics, Artificial intelligence in power system			
Total experience in the research (academic/industry/ organization) (in year): 18 years			
### Supervised Thesis/Project			
* GSM based SCADA system			
* Short time load forecasting using Fuzzy-logic and Neural Networking			
* PLC based intelligent traffic light control			

* GPS enabled message reminder system or, personal assistant			
* Intelligent load shedding using Microcontroller			
* PLC based AC motor Protection			
* Microcontroller based reverse power relay			
* Design an implementation of PC based SCADA system			
* Global Positioning System and Voice Enable Assistant for Blind People			
* Simulation and Performance analysis of a Wind Turbine Power Plant			
* Wind Energy Integration into Grid			
* PSO based optimal load dispatch			

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