

# A S Zaforullah Momtaz

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## Objective

To obtain a responsible & challenging position in a progressive organization; where my job experience will have valuable application as well as utilization of my opportunity for advancement.

## Educational Qualifications

Degree	Passing Year	Group	Institution	Result
M Sc	2019	MCSE	University of Asia Pacific	CGPA: 3.96
B Sc	2010	CSE	University of Asia Pacific	CGPA: 3.92
HSC	2005	Science	Govt A H College	GPA: 4.10
SSC	2003	Science	Uttaran High School	GPA: 3.81

## Activities

- Designed and implemented an interactive artificial pet robot named '**BLU – Beloved Until**'.
- Designed and developed the website of **National Collegiate Programming Contest** 2016, hosted by University of Asia Pacific titled [www.uapncpc2016.com](http://www.uapncpc2016.com)
- Designed more than **600** web applications in HTML5 which are live in **Quizee Club**, which is an online quiz engine and social network.
- Designed and developed more than 50 applications in JAVA NetBeans.
- Developed more than 50 **Game** projects and **Magic** projects in java script.
- Designed and developed more than **100 projects** on electronics and electro-computing including **LED display panel, computer port interpreter, Stepper and Servo motor controller, interfacing computer peripherals to microcontroller** etc in the Hardware and Software club, CSE, UAP.
- Designed and developed a **robot** for solving **tower of Hanoi** puzzle using the industrial robot arm concept
- Designed and developed an **auto-robot** for easy going **Sea Port Management System** using the auto mobile robot concept

- Designed and implemented, two **Trainer Boards** for industrial manufacturing in the purpose of small as well as medium size laboratory tasks.
- Developed **RS-232** communication port based **microcontroller interfacing kit**, for both **AVR** and **PIC** series of microcontrollers. Also developed, **USB-2.0** microcontroller interfacing kit for **AVR** series of microcontroller
- Designed and developed IP based real time hardware communication system.
- Designed and implemented remote combat robot titled **VECTOR**.
- Designed and implemented smart manager robot titled **IAN**.

### **Achievements**

- Achieved **First** Position (Hardware Group) in Interdepartmental Carnival by CSE, UAP in the year 2010.
- Achieved **Third** Position in **three different times** in Interdepartmental Programming Contest by CSE, UAP in the year 2007, 2008 and 2009.

### **Training**

- Participated in the training on **Microcontroller Programming**, and **Implementation of Embedded Systems**, arranged by Next Sapiens, India.
- Participated in the training on **Design and Implementation of Robots**, arranged by Next Sapiens, India.

### **Courses Completed in Undergraduate Program**

- **Networking:** Data Communication, Computer Networking.
- **Programming:** C, C++, Java for mid-level to high-level computer programming for specially design and implementation of engineering software projects; also studied, assembly language for machine level programming, especially for microprocessor programming.
- **Other Computing Courses:** Pattern Recognition, Artificial Intelligence, System Simulation and Analysis, Software Engineering, Database Designing, Discrete Mathematics, Data Structures, Computer Organization & Architecture, Algorithms, Computer Graphics, Compiler.
- **Electronics:** Electronics Basics, Digital Logic design, Digital System Design, Microprocessors, Computer Peripherals and Interfacing, VLSI, Digital Pulse Technique.

### **B Sc Thesis**

B Sc thesis project was design and implementation of a '**Container Carrier Robot**'; this was a prototype for easy going *Sea Port Management System*.

## ***Skills & Performances***

**Programming:** Skilled in C, C++ for DOS computer programming, Visual Basic for Windows programming, Basic for AVR series microcontroller programming, Java for windows programming, Java script for client side web applications, J2ME for mobile phone applications.

**Drawing and Designing:** Skilled in 3D object designing in 'Google Sketch Up', PCB designing in 'ExpressPCB', electronic project designing in 'Protease'.

**Electronics:** Skilled in any kind of electronic devices including digital systems especially microcontroller, memory chips, registers.

**Robotics:** Skilled in robot designing and implementation, especially robot input/output and processing systems.

## ***List of Publications (17)***

- [1] A. M. Abdullah Momtaz, Md. Ruhul Islam, & A. S. Zaforullah Momtaz, "Range BLU: The Ultimate Companion Robot", [Communications on Applied Electronics (CAE) – ISSN : 2394-4714, Foundation of Computer Science FCS, New York, USA Volume 7 – No. 30, August 2019, <https://www.caeaccess.org/archives/volume7/number30/momtaz-2019-cae-652828.pdf>]
- [2] A S Zaforullah Momtaz, Rakib Ul Haque, & Nusrat Jahan, "An Advance IoT based Road Traffic Manipulation System", [Communications on Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA Volume 7– No. 23, December 2018, <https://www.caeaccess.org/archives/volume7/number23/momtaz-2018-cae-652791.pdf>]
- [3] A S Zaforullah Momtaz, Nadeem Ahmed, & Rahul Acharjee, "Supervision of IoT water pump remotely through versatile media", [Communications on Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA, Volume 7 – No.3, June 2017, <http://www.caeaccess.org/archives/volume7/number3/momtaz-2017-cae-652607.pdf>]
- [4] A S Zaforullah Momtaz, Rahul Acharjee, Shishir Ahmed & Razia Naushin, "An Advanced Ultra Sonic Traffic Monitoring System using Loops and Cross-Over Bridges", [Communications on Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA, Volume 6– No.9, April 2017, <http://www.caeaccess.org/archives/volume6/number9/momtaz-2017-cae-652562.pdf>]
- [5] A S Zaforullah Momtaz, Nahida Sultana Chowdhury & Rahul Acharjee, "Hanoi<sup>+</sup>: An Automated System to Solve Towers of Hanoi Puzzle", [Communications on Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA, Volume 6 – No.7, February 2017 – [www.caeaccess.org](http://www.caeaccess.org), <http://www.caeaccess.org/archives/volume6/number7/momtaz-2017-cae-652510.pdf>]

- [6] A S Zaforullah Momtaz, Molla Rashied Hussein & Nahida Sultana, "VECTOR: An IP-based Remote Combat Robot", [ International Journal of Computer Applications (0975 – 8887) Volume 133 – No.11, January 2016, <http://www.ijcaonline.org/research/volume133/number11/momtaz-2016-ijca-908098.pdf>]
- [7] Nahida Sultana Chowdhury, A S Zaforullah Momtaz & S M Salim Reza, "Implementation of an Automated System to Control Machine Through IP", [International Journal of Advances in Computer Networks and Its Security– IJCNS Volume 5: Issue 2 [ISSN : 2250-3757], Page(s): 94 ~ 97, 30<sup>th</sup> October, 2015, <http://www.seekdl.org/nm.php?id=6816>]
- [8] A S Zaforullah Momtaz, S M Saleh Reza & S M Salim Reza "ROBOAT: A Naval Robot Boat For Remote War Operation", [International Journal of Advances in Computer Science & Its Applications– IJCSIA Volume 5 : Issue 2 [ISSN : 2250-3765], Page(s): 91 ~ 93,<http://www.seekdl.org/nm.php?id=7062>]
- [9] Nahida Sultana Chowdhury, A S Zaforullah Momtaz & S M Salim Reza, "Implementation of an Automated System to Control Machine Through IP", [ Advances in Computing, Electronics and Electrical Technology - CEET 2015, ISBN: 978-1-63248-056-9 (<http://www.seekdl.org/nm.php?id=5402>) ]
- [10] A S Zaforullah Momtaz, S M Saleh Reza & S M Salim Reza "ROBOAT: A Naval Robot Boat for Remote War Operation", [ Advances in Computing, Electronics and Electrical Technology - CEET 2015, ISBN: 978-1-63248-056-9 (<http://www.seekdl.org/nm.php?id=5413>) ]
- [11] A S Zaforullah Momtaz, Nahida Sultana Chowdhury & S M Salim Reza "Implementation of an Embedded System Hanoi for Tower of Hanoi Puzzle", [International Journal of Advances in Computer Science & Its Applications – IJCSIA Volume 4: Issue 4 [ISSN 2250-3765],December27,2014 (<http://www.seekdl.org/nm.php?id=5013>)]
- [12] A S Zaforullah Momtaz, Nahida Sultana Chowdhury & S M Salim Reza "Implementation of an embedded system Hanoi for tower of Hanoi puzzle" [The International Conference on Advances in Computing, Electronics and Electrical Technology - CEET 2014, Paper ID: CEET-14-620, (<http://seekdl.org/nm.php?id=3878>)]
- [13] A S Zaforullah Momtaz, Nahida Sultana Chowdhury & Alope Kumar Saha, "Hanoi: An Embedded System for Tower of Hanoi Puzzle", [Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS) 5(2): 161-171 © Scholarlink Research Institute Journals, 2014 (ISSN: 2141-7016) [jeteas.scholarlinkresearch.org](http://jeteas.scholarlinkresearch.org), [jeteas.scholarlinkresearch.com](http://jeteas.scholarlinkresearch.com), <http://jeteas.scholarlinkresearch.com/articles/Hanoi.pdf>]
- [14] Subrata Karmoker, Kazi Shamsul Arefin & A S Zaforullah Momtaz, "Design and implementation of a Computer Controlled Bulldozer (CCB)", [IJCIT, ISSN 2078-5828 (PRINT), ISSN 2218-5224 (ONLINE), VOLUME 02, ISSUE 01, MANUSCRIPT CODE: 110752, [www.ijcit.org](http://www.ijcit.org), ([http://www.ijcit.org/ijcit\\_papers/vol2no1/IJCIT-110752.pdf](http://www.ijcit.org/ijcit_papers/vol2no1/IJCIT-110752.pdf))]

- [15] Subrata Karmoker, Kazi Shamsul Arefin & A S Zaforullah Momtaz, "Controlling Water Pump Machine Using Cellular Mobile Telephony", [IJCIT, ISSN 2078-5828 (PRINT), ISSN 2218-5224 (ONLINE), VOLUME 02, ISSUE 01, MANUSCRIPT CODE: 110753, www.ijcit.org, ([http://ijcit.org/ijcit\\_papers/vol2no1/IJCIT-110753.pdf](http://ijcit.org/ijcit_papers/vol2no1/IJCIT-110753.pdf))]
- [16] A S Zaforullah Momtaz, Md. Fayyaz Khan, Muhammad Sajjad Hossain, Alope Kumar Saha & Kazi Shamsul Arefin, "Design and Implementation of an Efficient Natural Algorithm to Solve Towers of Hanoi Puzzle having Multiple Towers & Disks", [IACSIT International Journal of Engineering and Technology, Vol.3, No.4, August 2011, <http://www.ijetch.org/papers/248-JT331.pdf>]
- [17] A S Zaforullah Momtaz, Md. Fayyaz Khan, Alope Kumar Saha & Kazi Shamsul Arefin, "A Practical Solution for Robotic Arm of the Towers of Hanoi Problem", [International Journal of Computer and Electrical Engineering, Vol. 3, No. 4, August 2011, <http://www.ijcee.org/papers/384-JE446.pdf>]

### **Job Experiences**

- Serving as Assistant Professor from April 2016 to till date in the Department of Computer Science & Engineering (CSE), University of Asia Pacific, 74/A Green Road, Dhaka.
- Served as Lecturer from November 2011 to April 2016 in the Department of Computer Science & Engineering (CSE), University of Asia Pacific, 74/A Green Road, Dhaka.
- Served as Teaching Assistant from April 2011 to October 2011 in the Department of Computer Science & Engineering (CSE), University of Asia Pacific, 74/A Green Road, Dhaka.
- Served as iPhone web app developer from August, 2010 to November, 2011 in Codemen, Malibagh, Dhaka.

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