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| **HARICHANDAN ROY**  |

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| http://my.bdjobs.com/photos/425001-450000/18447356h3c4g.jpg |

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| **Career Objective:** |
| To pursue highly challenging ventures where I can contribute to the organizational goals thereby acquire new technical skills and contribute constructively.  |

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| **Employment History:** |
| **Total Year of Experience :** 4.4 Year(s)  |
| 1. | **Software Engineer ( November 01, 2009 - Continuing)** |
| . | **SDSL** Company Location : House No-6/2, Block-B, Lalmatia, Dhaka-1207 Department: Software Development  |

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| **Academic Qualification:** |
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| **Exam Title** | **Concentration/Major** | **Institute** | **Result** | **Pas.Year** | **Duration** | **Achievement** |
| B. Sc. in Computer Science and Engineering .  | Computer Science & Engineering .  | Bangladesh University of Engineering and Technology .  | CGPA:3.67out of 4 .  | 2009 .  | 4 years .  | BUET Deans Award; BUET Academic Merit Award; BUET Technical Scholarship .  |
| Higher-secondary School Certiﬁcate (HSC) .  | Science .  | New Govt. Degree College, Rajshahi .  | CGPA:5out of 5 .  | 2004 .  | 2 years .  | - .  |
| Secondary School Certiﬁcate (SSC) .  | Science .  | Dimla Rani Brinda Rani Govt. High School .  | CGPA:4.75out of 5 .  | 2002 .  | - .  | Rajshahi Board Scholarship .  |

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| **Specialization:** |
| ϖ Publication: Fault-tolerant Power-aware Topology Control for Ad-hoc Wireless Networks Harichandan Roy, Shuvo Kumar De, Md. Maniruzzaman and Ashikur Rahman 9th event of the series of International Conferences on Networking (Networking 2010), sponsored by the IFIP Technical Committee on Communication Systems (TC6). LNCS 6091, pp. 303-314, Chennai, India 2010. ϖ Expertise: Programming Languages: C, C++, JAVA, C#, Assembly Language, Prolog, PL/SQL, OpenGL, Verilog HDL, Unix Shell Script, MATLAB Web Programming: ASP/ASP.NET, JSP, JavaScript, PHP, HTML, XML, AJAX, CSS Modeling Languages: UML, E-R Diagram Database Systems: Oracle 9i and 10g, MySQL, Microsoft Access Programming Environment: JCreator, Kawa, JBuilder, NetBeans, Microsoft Visual Studio.Net, Devexpress, Dreamweaver, Joomla, GCC, AVR Studio etc. Hardware Simulation Tools: Pspice, Circuit Maker, Proteus, Quartus Operating System: Variants of Linux and Windows Others: Packet Tracer, LATEX , LEX, YACC, Crystal Report, Google sktchUp, 3ds Max, Adobe Photoshop, GNU Plot, NACHOS ϖ Major Software Development Projects: ϖ The Echo It is an online mobile game application where two players can participate in fighting each other. There are many weapons, each player can equip them and fight with opponent. ϖ Voting System Automation It had three parts- (1) Voter list automation: Information about voters was stored in database, (2) Online voting: Registered voters used to cast their vote, and (3) Election result publication website: Used to publish the result and other information of election in various format (such as- graphical, text etc.) onto webpage after a fixed interval. It was published in the daily newspaper Prothom-alo on 12th September08. Developed using ASP.NET, Oracle, AJAX, Devexpress tools, C#, JavaScript, Crystal Report etc. ϖ Hatil Customer Service and Requisition System Analysis and Automation We had analyzed their system and then done automation which had two parts- (1) Customer Subsystem Automation: Information about customers, goods bought by them, buying date and other relevants were stored in database, and (2) Requisition Subsystem Automation: Used to order various requirements from one branch to another or warehouse. Developed using ASP.NET, SQL, C#, JavaScript, Crystal Report etc. ϖ Simulation tool It was a simulation type application used for thesis purpose. It simulated adhoc wireless network topology. From a given network topology it outputs some variants of network topology and different kinds of format for GNU plot. Developed using JAVA. ϖ 3D Carrom Game Developed as graphics project with Gaming concept, Indoor environment, Decoration and Pucks, Animation, Aesthetics, Camera settings, Lighting, Shading, Texturing and Human motion using Google SktchUp, 3ds Max, Opengl etc. ϖ Implementation of Three OSI Layers (1) Physical layer: Null modem preparation. (2) Data link layer: Peer to Peer data transformation with framing, flow control, error control using stop-wait protocol. (3) Network layer: Network topology build-up and data transformation from one network to another. Developed using JAVA. ϖ Implementation of Thread Synchronization and Process Management of NACHOS Thread synchronization and process management were implemented by using synchronization primitives such as lock, semaphore, mutex etc. and by introducing virtual memory. ϖ Chess Game From a given combination of black and white knights, it had fully separated the knights into two groups where all whites in one side and all blacks in another. Developed using JAVA. Some heuristics were imposed to make solver efficient. ϖ Online Tic Tac Toe Game Online Tic Tac Toe game with solver was developed using JAVA. One of two players might be a computer and another one should be human being or both of them might be human being. ϖ SMS Reader Received SMS through a modem and stored it to computer which was sent from a cell phone. Developed using JAVA. ϖ J2ME Applications Developed applications are consisting of List, Form, Canvas, HTTP request response reading, String parsing, Alert, Timer task, UTF-encoding, MMAPI, RMS, File reading, XML parsing, Sliding menu etc. ϖ Compiler Implementation Compiler for language C (some selected parts) was developed in LINUX environment. ϖ Structural Design of Our National Shahid Minar Developed as 3D object using Opengl premitives. ϖ Major Hardware Development Projects: ϖ Wireless KeyBoard and Mouse Using ATMEGA32 microcontroller, AVR studio IDE and other necessary tools and materials wireless keyboard and mouse were made. So without any physical connection we can perform any task of keyboard and mouse using those. ϖ 4-bit 2-stage Pipelined Microprocessor Design, Simulation and Implementation It was able to execute 28 instructions written in RAM. Simulation was done by Pspice and Proteus.  |

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| **Personal Details :** |
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| Father's Name  | : | Dijendra Nath Roy  |
| Mother's Name  | : | Rupa Bala Roy  |
| Date of Birth | : | August 11, 1986  |
| Gender | : | Male  |
| Marital Status  | : | Unmarried  |
| Nationality | : | Bangladeshi  |
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| Permanent Address | : | Village: Pacher Hat, Thana: Dimla, Post: Shalhati, District: Nilphamari  |
| Current Location | : | Dhaka  |

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