

Resume

Nadim Jahangir

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Objective

Being well recognized in the software industry of Bangladesh by doing research and development activities.

Education

- ❖ Currently studying B. Sc. In Computer Science and Engineering at Northern University Bangladesh, holding CGPA 3.994. Expected graduation date: February, 2009.
- ❖ H. S. C. in 2004 from New Govt. Degree College Rajshahi under Rajshahi Board with GPA 5.00.
- ❖ S. S. C. in 2002 from Masjid Mission Academy Rajshahi under Rajshahi Board with GPA 4.50.

Current Project Involvement

Empowering Disables Towards Better Life: This is a research project devoted to empowering physically disabled so that they can live comfortably. Both software and hardware devices are intended to be built that might aid them in achieving autonomy. Capturing and analyzing the target person's gesture, posture, movement, emotional expression etc. is the prime focus of this research which will ultimately be used to control robotic manipulator or other machine of concern. The very first outcome from this research is **IDII (Intention Driven Input Interface)** which includes a virtual keyboard and mouse that can be driven by head movement. This is intended to be used by those people who don't have hands or don't have control over hands and hence can't use computers.

Tools being used: Image Processing, Computer Vision, Face Detection, Motion Analysis, Microsoft Foundation Class, WebCam etc.

JCVL (Java Computer Vision Library): An easy to use library for developing computer vision applications in Java. Implementing object detection, tracking, video surveillance algorithms are primary target of this library.

Tools being used: Java, Java Media Framework, Java Advanced Imaging.

Past Projects

- ❖ **C³DeMo (CC Cam like Desktop Monitor):** Desktop sharing utilities available in most operating systems have some limitations. Most of them can share single desktop at a time and no one can use the shared desktop during sharing operation. With a view to overcoming these limitations this software has been developed. It can be used in cyber café where the administrator can monitor all the users' activity sitting before his machine simultaneously. He can also control the shared desktops.

Tools used: Java, TCP/IP Socket Programming.

- ❖ **Remote Site Viewer:** A web based application by which one can see the status of his/her house on mobile phone screen by using this software from any corner of the world. A WebCam is to be attached with the PC at home with internet connection. The mobile phone user can send command to the PC at his/her home via web server to capture image from desired angle and see it on mobile phone screen. So all the time the status of his/her house is visible to him/her no matter where s/he is.

Tools used: J2SE, J2ME, JNI, Java Media Framework, PHP, HTTP Programming, Parallel Port Interfacing, Stepper Motor and Drive, WebCam.

- ❖ **ELA (Easy Logic Analyzer):** A testing software for real-time digital electronics circuits. The circuit under test is connected to PC via parallel port and desired digital signals can be generated by PC and fed into the circuit. The circuit response can be analyzed on PC screen.

Tools used: Visual Basic 6.0, ActiveX Programming, Parallel Port Interfacing.

Skills

I've been playing with Java since 2002. I'm very good at Java network programming, Java image processing and Swing.

Programming Languages: C/C++, Java (SE, ME, EE), Visual Basic, C#, MatLab, ProLog.

Modeling Language: UML.

Web Development Languages: HTML, CSS, XML, XSLT, SVG, JavaScript, DOM, AJAX, JSP, JSTL, PHP, Flash ActionScript.

Special APIs and Tools: MFC, COM, GDI, ActiveX, Java Media Framework, Servlet, jSMSEngine, Java Communication API, Java 2D/3D, Java Advanced Imaging, TCP/IP Socket Programming in Java, RMI, Swing, JDBC, Jasper, Java Object Oriented Neural Engine, JNI, JDOM, J2ME Connection Framework, J2ME Bluetooth, OpenGL, Intel OpenCV, MS Speech SDK, Linux Shell Scripting.

IDEs: NetBeans, Microsoft Visual C++ 6.0, Microsoft Visual Studio .NET.

Reporting Tools: iReport, Crystal Report.

DBMSs: MySQL, MS SQL Server 2000, MS Access.

Servers: Apache Tomcat, GlassFish.

OSs: MS Windows, Fedora (Linux), RedHat (Linux), Ubuntu (Linux), Sun Solaris.

Frequently used Softwares: Microsoft Office, Microsoft Visio, Macromedia Flash, Macromedia Dreamweaver, Adobe Photoshop, Adobe Illustrator, MatLab, PSpice, MS Internet Explorer, Mozilla Firefox.

Embedded System Development: Intel 8051 Microcontroller, Microchip PIC Microcontroller, Keil, MPLab.

Practical Knowledge on: Image Processing, Computer Vision, Statistical Machine Learning, Pattern Recognition, Neural Network, Genetic Algorithm, Fuzzy Logic and Systems, Cellular Automata, Cryptography.

Research Publications

- ❖ *Eye Detection in Facial Image by Genetic Algorithm Driven Deformable Template Matching*, Nadim Jahangir, accepted for publication in the Workshop on Signal Processing and Pattern Recognition Applications (SPPRA), 2008, Austria. Paper ID: 599-118.
- ❖ *Bangladeshi Banknote Recognition by Neural Network with Axis Symmetric Masks*, Nadim Jahangir and Ahsan Raja Chowdhury, in the proceedings of International Conference on Computer and Information Technology (ICCIT 2007), December, 2007, pp. 379-383.
- ❖ *Fourier Masking Encryption Algorithm for Polyalphabetic Symmetric Key Cryptography*, Nadim Jahangir and Ahsan Raja Chowdhury, Daffodil International University Journal of Science, vol. 2, issue. 1, January, 2007, pp. 13-18.
- ❖ *A New Approach of Polyalphabetic Cryptography using Fourier Series*, Nadim Jahangir and Ahsan Raja Chowdhury, in the proceedings of National Conference on Cryptography and Information Security (NCCIS 2006), November, 2006, pp. 33-38.

Awards

- ❖ **Student of the Year 2006**, Faculty of Science, Northern University Bangladesh.
- ❖ **1st Prize in Article Writing Competition**, IT Festival 2007, Faculty of Science, Northern University Bangladesh. Article title: *Mimicking Neurobiological Phenomenon by Neural Network*.
- ❖ **3rd Prize in Software Exhibition**, IT Festival 2007, Faculty of Science, Northern University Bangladesh. Software: ELA (Easy Logic Analyzer).
- ❖ **Rajshahi City Mayor Award** for the Excellence in H. S. C. exam, 2004.

Participation in Software Fairs

- ❖ North South University IT Fair 2008, June, 2008. Software: IDII (Intention Driven Input Interface).
- ❖ Software Fair in the IT Festival 2008, International Islamic University Chittagong, Dhanmondi, Dhaka Campus, June, 2008. Software: IDII (Intention Driven Input Interface).
- ❖ Software Fair in the IT Festival 2007, Northern University Bangladesh, February, 2007. Software: ELA (Easy Logic Analyzer).

Conferences and Seminars Attended

- ❖ International Conference on Computer and Information Technology (ICCIT 2007), December, 2007, United International University. Participation: as author and paper presenter.
- ❖ National Conference on Cryptography and Information Security (NCCIS 2006), November, 2006, Daffodil International University. Participation: as author and paper presenter.
- ❖ Seminar on *Fuzzy Logic: A Grand Paradigm Shift*, 2007. Participation: as speaker.

References

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