Ashish Tibrewal

Flat 3, 2 All Saints' Road, Bristol, BS8 2JH, UK

✉ ashish.tibrewal@hotmail.com   ☎ +44 (0) 7927 707009   in https://uk.linkedin.com/in/tibrewalashish   💼 https://ashishtibrewal.github.io

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Education	**The University of Bristol**, Bristol, UK	
	Master of Engineering (M.Eng.) in Computer Science and Electronics	$2012-2016$

- Degree Class: Upper Second Class (2:1)
- Modules (1st - 3rd Year): Procedural Programming, Principles of Programming, Theory of Computation, OOP & Functional Programming, Computer Architecture, Microelectronics, Linear Circuits, Electronics, Engineering Mathematics, Discrete Mathematics, Data Structures & Algorithms, Symbols-Patterns & Signals, Language Engineering, Digital Systems, Signals & Systems, Communications, Control Systems, Digital Design, Professional Studies, High Performance Computing, Digital Filters & Spectral Analysis, Mobile Communications, Networks & Protocols, Industrial Research Project
- Modules (4th Year): Advanced Computer Architecture, Interactive Devices, Robotic Systems, VLSI Design, Advanced DSP & FPGA, Innovation - Entrepreneurship & Enterprise, Biosensors, Device Interconnect, Master's Project - Disaggregated Data Centres: Simulation & Analysis of Resource Allocation Algorithms

The Assam Valley School, Assam, India $\qquad 2004-2012$

Indian School Certificate (ISC), 2012 (Equivalent to UK A-Level)

- English - 88%, Mathematics - 90%, Physics - 80%, Chemistry - 86%, Computer Science - 98%, Environmental Education - 94%

Indian Certificate of Secondary Education (ICSE), 2010 (Equivalent to UK GCSE)

- English - 80%, Hindi - 76%, Environmental Education - 95%, Social Studies - 90%, Mathematics - 88%, Sciences - 86%, Computer Applications - 94%

Work Experience & Positions of Responsibility

Research Engineer at **Renishaw plc**, Wotton-under-Edge, UK $\qquad$ Jan '15 − Sep '15

- This research project involved doing a feasibility and concept study of a passive non-contact 3D scanner. It involved designing a serial communication & PI control system in VHDL, simulation and formal verification of the design, and developing a high-level GUI application in C# (Windows Forms) using the .NET Framework to interface with the system. Working on this project provided me with an in-depth understanding of the core functionality of the .NET Framework, COM, and RTL design flow. It particularly enhanced my knowledge of object-oriented design and multi-threaded GUI application development and significantly improved my programming skills in VHDL and C#. This experience also helped me develop my core problem solving, interpersonal, and research skills.

Software Analyst Intern at **Hidden Brains InfoTech**, Ahmedabad, India $\qquad$ Aug '14 − Sep '14

- During my six-week internship with Hidden Brains InfoTech, I was a part of the planning and analysis team for several website and mobile application development projects which involved analysing client proposal documents and producing software requirement specification (SRS), scope of work, business requirement and database documents. This provided me with a comprehensive knowledge of project management, software development life cycle (SDLC) and its various facets.

Head of the school's Lawn Tennis Team at **The Assam Valley School**, Assam, India $\qquad 2010-2011$

- Represented and led the Assam Valley School's lawn tennis team at several inter-school tournaments.

Honours & Achievements

- Received an honourable mention for the *'Dean's International Intern Scholarship Scheme'* at the University of Bristol for my internship at Hidden Brains InfoTech $\qquad$ Nov 2014
- Recipient of the *'Barry Thomas Scholarship for Computer Science'* at the University of Bristol $\qquad$ Oct 2012
- Delegate to the *International Exchange Programme* held at St.Ives High School, Sydney, Australia $\qquad$ Sep 2010
- Recipient of *'Major Colours'* for Lawn Tennis and Photography at the Assam Valley School $\qquad$ 2009 , 2010 , 2011
- Represented *'Assam'* at the *Junior National Squash Championships*, Mayo College, Ajmer, India $\qquad$ 2007

Skills

Programming: C, C#, Java, Haskell, HTML, CSS, JavaScript, XML, SQL, Unix shell scripting (Bash), VHDL, Verilog, LaTeX, MATLAB, OpenMP, OpenMPI, OpenCL, OpenGL, EmguCV (OpenCV), Assembly

Technologies: Git, Vim, ActiveHDL, ModelSim, Quartus II, Altium Designer, Cadence, Microsoft Visual Studio, .NET Framework, Microsoft Office Suite, Adobe Photoshop, UML, Jekyll, CCS, Eclipse

Languages: English, Hindi, Assamese

Interests

Programming, Reading, Photography, Music, Sports, Cooking, Baking, Travelling, Equestrianism

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Voluntary Work

Member of The Assam Valley School's *'Social Service League'* and the *'Literacy Program Campaign'*

References

Available on request

[CV updated as of Monday 12th September, 2016]