Ashish Tibrewal

30a Lower Redland Road, Bristol, BS6 6SU, UK

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

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

- Degree Classification: Upper Second Class Honours (2:1)
- Core Modules: Principles of Programming, Object Oriented & Functional Programming, Engineering Mathematics, Discrete Mathematics, Data Structures & Algorithms, Digital Systems, High Performance Computing, Networks & Protocols, Advanced Computer Architecture, VLSI Design
- Research Projects: Feedback Control & User Interface Design for a Low Cost 3D Scanner, Disaggregated Data Centres – Simulation & Analysis of Resource Allocation Algorithms
- Group Projects: Digital Design – Peak Detector Design, Communications – Wireless Modem Design, Professional Studies – General Electric (GE) Audit Report, Interactive Devices – Using Acoustic Sensing to Create a Touch Sensitive Surface, Robotic Systems – Localistaion System Design

The Assam Valley School, Assam, India — 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%

Professional Experience

Research Engineer at **Renishaw plc**, Wotton-under-Edge, UK — Jan – Sep 2015

Renishaw are a world leading engineering company with expertise in high-precision measurement and health care, and are listed on the FTSE 250 index – I was part of their Group Engineering division.

- Researched, performed a feasibility and concept study, and built a prototype of a passive 3D scanner
- Designed, developed, simulated, and analysed a serial communication and PI control system in VHDL
- Designed a high-level GUI application in C# to interface with the system. Optimised performance by implementing a multi-threaded design, and integrated support for MATLAB and GNU Octave to run image processing script using Automation. Designed APIs to support EmguCV, Microsoft SQL Server, and an in-house developed graphics rendering library
- Completed preliminary schematic and PCB design for the next iteration of development
- Drafted comprehensive documentation covering design and implementation details including software documentation. Involved in code/design reviews and presentations with senior members of the team
- Trained new interns on Renishaw's in-house RTL/HDL design, simulation, and synthesis tools
- Completed several advanced training courses run by both internal and external industry professionals

Software Analyst Intern at **Hidden Brains InfoTech**, Ahmedabad, India — Aug – Sep 2014

Hidden Brains are a privately owned IT & software development company with expertise in web, mobile application development, and embedded solutions – I was part of their planning and analysis team.

- Analysed client proposal documents, drafted software requirements specification (SRS), scope of work, business requirement, and database documents, and created UML models for several website and mobile application development projects
- Improved existing documents to minimise development required reducing delivery time and costs

Captain of the school's Lawn Tennis Team at **The Assam Valley School**, Assam, India — 2010 – 2011
- Represented and led the Assam Valley School's lawn tennis team at several inter-school tournaments.

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 — 2014
- Recipient of the *'Barry Thomas Scholarship for Computer Science'* at the University of Bristol — 2012
- Delegate to the *International Exchange Programme* held at St.Ives High School in Sydney — 2010
- Recipient of *'Major Colours'* for Lawn Tennis and Photography at The Assam Valley School — 2009 – 2011
- Represented *Assam* at the *Junior National Squash Championships*, Mayo College, India — 2007

Skills/Interests

Programming: C, C++, C#, Java, MATLAB, Python, Haskell, SQL, VHDL, Verilog

Scripting/Markup: HTML, CSS, JavaScript, Bash, Markdown, YAML, XML, LaTeX

Technologies/Frameworks: .NET Framework, Jekyll, Django, JUnit, TravisCI

Open Source: OpenMP, OpenMPI, OpenCL, OpenGL, OpenCV (EmguCV)

Tools: Git, Vim, CLI, Shell (Bash), GNU toolchain, Valgrind, Visual Studio, MS Office Suite, Photoshop

Platforms: macOS, Linux, Unix, MS Windows

Languages: English, Hindi, Assamese

Interests: Programming, Reading, Photography, Music, Sports, Cooking/Baking, Travelling, Equestrianism

Volunteering

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

[*References available on request – CV updated as of Thursday 6th October, 2016*]