# Ashish Tibrewal

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## Education

**University of Bristol**, Bristol, UK

*Master of Engineering (MEng) in Computer Science and Electronics*    2012 – 2016
- Degree Classification: Upper Second Class Honours (2:1)
- Research Projects: Feedback Control & User Interface Design for a Low Cost 3D Scanner, Disaggregated Data Centres – Simulation & Analysis of Resource Allocation Algorithms

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

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## Experience

*Software Engineer* at **HCL Technologies**, Noida, India    Oct 2017 – Present

HCL Technologies is a global IT services company that helps enterprises reimagine their businesses for the digital age and offers IT consulting, digital, cybersecurity, IoT, automation and engineering services.
- Researching and developing artificial intelligence (AI) and machine learning (ML) applications
- Implementing new features and optimising performance for their flagship automation products
- Working with open source ML/AI frameworks and libraries such as Tensorflow, CuDNN, Theano
- Exploring several image processing, text extraction, and NLP algorithms and methods
- Researching cognitive virtual assistants, knowledge management, and robotic process automation

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

Renishaw plc is 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. Designed APIs to support EmguCV, Microsoft SQL Server, and an in-house developed graphics rendering library
- Optimised performance by implementing a multi-threaded design, and integrated support for MATLAB and GNU Octave to run image processing script using Automation.
- 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 InfoTech is a private 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
- Designed UML models for several website and mobile application development projects
- Improved existing documents to minimise development required reducing delivery time and costs

*Lawn Tennis Team Captain* 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.

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## 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'** at St.Ives High School, 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'** at Mayo College, Ajmer    2007

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## Skills/Interests

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

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

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

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

**Languages:** English (Fluent), Hindi (Fluent), Assamese (Intermediate)

**Interests:** Programming, Reading, Photography, Tennis, Cooking/Baking, Travelling, Scuba diving

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## Volunteering

Member of the Assam Valley School's *'Social Service League'* and their *'Literacy Programme Campaign'*

[*References available on request – CV updated as of Friday 10th November, 2017*]