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)
- · 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 Passive Acoustic Sensing to Create a Touch Sensitive Surface, Robotic Systems – Localisation 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%, Mathematics - 88%, Hindi - 76%, Sciences - 86%, Computer Applications - 94%, Social Studies - 90%, Environmental Education - 95%

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

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.

Achievements

Received an honourable mention for the 'Dean's International Intern Scholarship Scheme' at 2014 the University of Bristol for my internship at Hidden Brains InfoTech

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 2007

Represented 'Assam' at the 'Junior National Squash Championships' at Mayo College, Ajmer

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 **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 (Fluent), Hindi (Fluent), Assamese (Intermediate)

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

Volunteering

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