

Term Address:
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Niharika Bhargava

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Home Address:
59 Riverside Walk
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Education

- 2011-2015** **University of Cambridge** B.A./ M.Eng. (hons) Engineering
First Class Honours in first and second year
- Course: Mechanics, Fluid Mechanics, Thermodynamics, Electrical and Information Engineering, Mathematics, Structures, Materials and Business Economics
Beginner French course - Distinction
 - Design: Structural design project, conceptual product design, hand drawing skills
Integrated Design Project: design and built an AGV
Integrated Electrical Project ~ Design Build & Test an AM radio
- 2013-2014** **Massachusetts Institute of Technology**
Exchange Student – Electrical Engineering (Course 6-1)
- Fall Courses:
Microelectronic Devices and Circuits Probabilistic Systems Analysis
Introductory Digital Systems Laboratory Artificial Intelligence Solid State Circuits
- 2010 - 2011** **Loughborough University, UK**
Best Maths Engineering Mathematics Module - Distinction

Work Experience

July 2012 – August 2012: Pandrol Ltd, London - Technical and R&D Department

Provided technical information in support of current and future product development. Resolved issues with the newer rail fasteners. Read reports on different track trials and used them to provide specific stiffness and/or reduce noise and vibration for different track types. Used technical drawings, CAD and Finite Element Analysis to redesign some of the aspects of the fasteners. Improved the design of the clamp of a particular rail fastener which did not perform as expected during track trials. Also assisted in creating new company procedures in the quality systems department and updated the rail pads database.

September 2010 – June 2011: SpiriTel plc. (later acquired by Daisy Group plc.), London – Billing Assistant

Worked on various billing platforms and created tariff schemes for customers. Generated and sent invoices/letters to customers. Sent weekly and monthly customer reports. Managed dealer commissions, commission reports and any related queries. Dealt with customer queries on the phone and via email. Supported the provisioning and finance department and account managers.

July 2007: London Borough of Richmond upon Thames Social Services – Finance and Accounting Department

Dealt with telephone inquiries, invoicing, organizing documents, sending letters, making reports and worksheets using excel, SAP and Frameworki.

Skills

C++ and Python programming, CAD (Pro-Engineer), MS Office, LTSPICE

Languages

English (fluent), Hindi (fluent), French (basic)

Extra-Curricular

- Bollywood Dance Team at MIT
- Tennis
- Ex-Community and Events officer of the Hindu Cultural Society
- Played for the inter-mural Badminton team
- Junior Diploma in Kathak, Indian classical dance
- Dance choreographer in Mastana Cultural Show 2013
- Helped organize college interviews, Fresher's Week and Newnham college ski trip.
- Subject representative for engineering in Newnham college

Achievements

- Bronze and silver medal at the UK Senior Math Challenge at school
- Subject award for A-level Physics in college
- Volunteered in The Big Bang Fair, UK Young Scientists and Engineers Fair.
- Math tutoring to a friend for a year
- Won a public speaking competition in school
- Prefect in school