

Richard Woodward

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EDUCATION

IMPERIAL COLLEGE LONDON

PHD IN BIOMECHATRONICS

Oct 11 – Apr 15 (Exp) | London, UK

Thesis title: Pervasive Motion Tracking and Physiological Monitoring

Advisor: Ravi Vaidyanathan

Advisor: Sandra Shefelbine

- James Dyson Foundation Scholarship
- Imperial Medal of Outstanding Achievement

IMPERIAL COLLEGE LONDON

MSC IN BIOMEDICAL ENGINEERING AND NEUROTECHNOLOGY

Oct 10 - Oct 11 | London, UK

Merit

UNIVERSITY OF READING

BSC IN CYBERNETICS AND CONTROL ENGINEERING

Sep 06 - Jul 09 | Berkshire, UK

Upper Second Class (2:1)

CHICHESTER COLLEGE

BTEC NATIONAL DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

Sep 04 - Sep 06 | Sussex, UK

Merit, Merit, Merit

SKILLS

PROGRAMMING

Experienced:

Java • C • C++ • CSS • HTML

Competent:

C# • Assembly • JavaScript

Familiar:

Python • iOS • Android • MySQL

SOFTWARE

Microsoft Office • MATLAB

Mathematica • LabVIEW

Eclipse • Microsoft Visual Studio

MPLAB • \LaTeX • SVN

Windows, Linux, and Mac operating systems

Solidworks

MACHINING & DESIGN

Turning • Drilling • Milling • Boring

Fabrication • 3D Printing • Computer Aided

Design/Manufacturing (CAD/CAM)

LANGUAGES

Native:

English

Understanding:

German

EXPERIENCE

IMPERIAL COLLEGE LONDON | RESEARCH ASSISTANT

Aug 14 – Current | South Kensington, London

- Research role investigating pervasive pregnancy monitoring devices and data analysis.

ROYAL BROMPTON HOSPITAL | SUPPORT VOLUNTEER

Mar 11 - Current | Chelsea, London

- Volunteer three hours a week in local respiratory ward.
- Assist patients with drinks, entertainment, and company.
- Deal with administration work, bed changing, retrieving/delivering paperwork and equipment.

ROVI | QUALITY ASSURANCE ENGINEER

Jun 10 – Oct 10 | Maidenhead, Berkshire

- Followed and wrote scripts for testing content protection on DVD's and their players.

SONY | SOFTWARE DEVELOPER

Jun 10 – Oct 10 | Basingstoke, Hampshire

- First project involved development of a web service for HDXchange; a media editor and storage environment.
- Web service allowed users to access and view media content on HDXchange anywhere with an internet connection.
- Written in Java and Representational State Transfer (REST) languages, including XML binding, JAXB, and SAX, developed using Apache Tomcat as the container. Mark-up languages HTML and CSS were also used.
- Second project involved development of a media importer which automatically downloaded content into the HDXchange API when media cards were inserted into a media deck.
- Written in Java, with Apache Ant for script building, SAX, and testing using JUnit and content control using SVN.

SONY | QUALITY ASSURANCE ENGINEER

Summer 08, Summer 09 | Basingstoke, Hampshire

- Followed and wrote scripts which tested performance, features, and known bugs for HDXchange.
- Provided support to development team with updates on progress and newly found bugs or errors.
- Tracking and updating items using Test Track Pro software.

COMPANIES

MATERNITEC LTD | CHIEF TECHNOLOGY OFFICER

2015 | South Kensington, London

- Spin-off company formed from pregnancy monitoring research performed at Imperial College London.

WOODWARD TECHNOLOGIES LTD | MANAGING DIRECTOR

2009 | Basingstoke, Hampshire

- Company created in order to contract software development and quality assurance skills.