

Richard Seaman

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Personal Profile

I am a hardworking, honest, reliable person with a positive mental attitude. I pride myself in getting things done in an efficient manner. I work well under my own initiative or as part of a team. I currently work as a Building Services Engineer with BDP in their Dublin offices. I've experience working on a range of projects in both lead and support roles. I completed a Masters of Engineering in Energy Systems Engineering at University College Dublin and graduated with a first class honours in December 2014. In November 2013, I graduated with a first class honours degree in Building Services Engineering from DIT, Bolton Street, Dublin. I am proud of the fact that after four years of hard work, I was presented with a special award for achieving the highest average mark of all Level 8 engineering programmes at DIT.

I am passionate about computer programming and app development. I spend a huge amount of my free time working on my own projects and developing my skills. I often find myself thinking about whatever my latest programming challenge is, instead of thinking about my day job. I aim to combine my passion for programming and my engineering talent through a career change into the software development industry.

Engineering Experience

Sept 2014 - Present Building Services Engineer
BDP.

I've had great opportunities to get involved in a range of projects with BDP, working in both lead and support roles. Projects include commercial office and healthcare buildings in addition to several educational buildings. Recently, I find myself investing more and more time in programming related tasks.

Duties & Responsibilities Include:

- Design of the heating, ventilation, air conditioning and public health systems
 - Production of detailed design drawings
 - Specification of plant and control systems
 - Internal Environmental Simulations
 - Interdisciplinary Design (working with architects, structural engineers etc.)
 - Supervision of building services installation on site
 - Development and submission of bid documents
 - Development of specialised computer simulation programs and models
 - Development and publishing of mobile apps for improved efficiency on the go and for marketing purposes
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Programming Experience

Please refer to my portfolio website, www.richardseaman.ie, to learn more about the projects I've worked on.

I am a self-taught programmer. All the skills I now have, I developed through determination and an internet connection. I have published multiple apps to both the App Store and Play Store (Swift and Java respectively). I utilise PHP and SQL on the backend to deploy RESTFUL APIs. I utilise Visual Basic to develop engineering tools to improve efficiency and provide automation in work (or "*Excel Wizardry*" as my colleagues call it!).

Pocket Papers

Description:	A study aid for students and teachers of the State Examinations in Ireland. Over 3,000 downloads in its initial year.
Platform:	iOS and Android
Technical:	Full stack development and automated content collection and collation from third party. PDF viewer. File manager. Customisable graphics. Download Manager. Calculators. In-app purchase. JSON parser – SQLite. Dynamic Data and Content.
Skills:	Swift, Java, PHP, SQL, Visual Basic, Graphic Design, Wordpress

Pocket TGD

Description:	A reference application for designers of schools in Ireland.
Platform:	iOS and Android
Technical:	PDF viewer. Calculators. Static Data and Content. (Android is dynamic and includes file manager)
Skills:	Swift, Java, Visual Basic, Graphic Design

Building Services Toolbox

Description:	A useful app for building service engineers to use while they're out and about.
Platform:	iOS
Technical:	A collection of calculators for various engineering tasks. Simple UI for complex calculations. Customisable parameters.
Skills:	Swift, Graphic Design

Excel Wizardry (Visual Basic)

Description:	Many different unique applications for improving accuracy and efficiency within an engineering company.
Platform:	Windows - Microsoft Suite (Excel, Word, Outlook)
Technical:	One example is an AI for tracking QA issues, automatically fixing some and naming and shaming the culprits. Another example is an automated email filer which saves every employee hours every month.
Skills:	Visual Basic

Education

2013-2014	Master of Engineering: Energy Systems Engineering University College Dublin, Belfield, Dublin 4.
Subjects	Energy Systems in Buildings, Chemical Processes of Sustainable & Renewable Technologies, Engineering Thermodynamics, Energy Systems and Climate Change, Wind Energy, Power Systems Operation, Air Pollution, Fossil Fuels and Carbon Capture and Sequestration, Heat Transfer, Professional Engineering (Management), Technical Communication, Research Skills and Techniques
Award	1.1

2009 - 2013	Bachelor of Engineering: Building Services Engineering (Hons) Dublin Institute of Technology, Bolton Street, Dublin 1.
Subjects	Air Conditioning Engineering, Controls Engineering, Energy & Buildings, Facilities Engineering, Computer Modelling and Simulation, Fire Engineering, Engineering Heat Transfer, Engineering Project Management, System Design Practice Software [IES VE], System Design Practice, Electrical Power & Distribution System, Emerging & Renewable Energy Technology, Applied Fluid Mechanics, Heating Systems Engineering, Building Heat Transfer, Lighting Design, Engineering Mathematics, Refrigeration, Construction Technology, Fabrication Technology, Visual Basic
Award	1.1 (Hons)

Skills

General Computing:	Engineering:	Proficient use of the following software packages: IES VE, Revit, TRNSYS, Ansys, DIALux, Autocad
	Word:	Production of project and report documentation. Development of automated report generation.
	Excel:	Completion of design calculations, spread sheet creation, macro creation through visual basic. Development of specialised applications and automation tools for engineering tasks.
	PowerPoint:	Preparation and use of slides for both detailed and high level presentations
Communication:	Developed good written communication while at college and continue to do so in my current position. Delivered multiple oral presentations with and without the use of PowerPoint. I often present technical designs to project stakeholders and clients. I also give in-house presentations on whatever the latest “tool” I’ve developed is.	
Teamwork:	Experience working as part of a multidisciplinary design team on a range of projects. Also member of a local rugby team.	
Driving:	Full, clean driving license	

Achievements and Interests

Engineering Awards:	<p>Runner-Up Prize in the President's Prize: CIBSE Undergraduate Award 2013 for my final year project. This award is open to CIBSE student members from Ireland, UK, New Zealand, Australia, Hong Kong and further afield who are in their final year.</p> <p>Shortlisted for the CIBSE ASHRAE Graduate of the Year Award 2014.</p> <p>Student Academic Excellence Award for achieving the highest average mark in all Level 8 engineering programmes at DIT in 2013.</p> <p>Finished top of the class in my Building Service Engineering Honours Degree with an average grade of 83%.</p> <p>Engineering Student of the Year in 6th Year of secondary school.</p> <p>Certificate of Distinction in the National Final of the Young Engineer Competition for my higher level leaving certificate engineering project which placed in the top ten in Ireland.</p>
School Awards:	Nominated for Student of the Year on 3 occasions.
Sport:	I played rugby in school and play for my local rugby team. I was awarded player of the year for the season 2014/2015.
Programming:	I have an interest in computer programming. I particularly enjoy mobile application development. I have a number of apps published on the App Store and the Play Store (iOS and Android respectively).
Drama:	I was involved with a local drama group for 10 years. We held an annual pantomime and my roles ranged from acting, backstage, front of house to lighting.
Travel:	I love to travel and experience new cultures. I spent three months travelling around the West coast of the United States during Summer 2012.

Referees

Dr. Michael Crowley	<p>Lecturer in Engineering and Project Supervisor, Dublin Institute of Technology, Bolton Street, Dublin 1.</p> <p>Tel: 01 4023825 Email: michael.crowley@dit.ie</p>
The Most Rev. Dr. Richard Clarke	<p>Archbishop of Armagh & Primate of All Ireland, Archbishop's Office, Church House, 46 Abbey St., Armagh BT61 7DZ, Northern Ireland</p> <p>Tel: 048 3752 7144 Email: archbishop@armagh.anglican.org</p>
