## Personal Details

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| Eamonn Duffy | Notice Period: | 6 Weeks. |

## Areas Of Expertise

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| Effective communication with superiors and colleagues; Full lifecycle experience, from large to small projects; Team environments; Object Oriented Analysis, Design and Development; MS Windows; Visual Studio; .Net and .Net Core; C#; ADO.NET; Entity Framework; ASP.NET Razor, MVC & Web API; SQL Server; Windows Services; RESTful Web Services; SOAP; Visual C++; Multi-threading; COM; MFC; Mentoring; Code Reviewing; CI/CD – TeamCity/Octopus-Deploy; Jira; HTML/CSS. Novice/Intermediate: Angular 6; Visual Studio Code; JavaScript; TypeScript; Git; Xamarin; Java; PHP; XML; NetBeans. |

## Qualifications

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| [Dublin City University (DCU, née NIHE)](https://www.EamonnDuffy.com/V2/Links/R1000) B.Eng. (Honours) in Electronic Engineering. |

# CAREER TO DATE

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| [Payzone (Ireland)](https://www.EamonnDuffy.com/V2/Links/R3009) | December 2011 – Present |
| * Payzone provide Financial-Technology/Payment Solutions.
* Work was carried out using Visual Studio 2008 to 2022, and Visual Studio Code.
* Work was initially carried out in **Windows Services**, **C#**, **SOAP**, **SQL Server** and **SSRS**.
* Work was also carried out in **C#**, **HTML/CSS**, **JavaScript**, **jQuery** and **ASP.NET MVC.**
* Work was additionally carried out in **C#**, **SQL Server**, **Angular 6**, **Visual Studio Code**, **ASP.NET Razor, MVC & Web API** (**RESTful Web Services**).
* Work has more recently been carried out in .Net Core and organised using **Jira**, reviewed using **Git**, and integrated and deployed using **TeamCity** and **Octopus Deploy**.
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| [EVE](https://www.EamonnDuffy.com/V2/Links/R2000)/GHIS/GHIS Student Portfolio | June 2010 – November 2011 |
| * Web Design (**HTML**, **CSS**, **JavaScript**, **jQuery**); some image processing; using Adobe CS3.
* ECDL Syllabus 5 (**Microsoft Office**).
* Communications.
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| Personal Learning & Development | May 2009 – June 2010 |
| Pursuing Windows and Cross-Platform software-based learning for interest and to improve skills.* Web Services (**C#**, **ASP.NET**, **Java**, **XML**, **Password Hashing**).
* Web Site updates and investigation (**C#**, **ASP.NET**, **XML**, **PHP**, **HTML**, **Java**).
* Visual Studio .NET 2003; Visual Studio Express Editions: 2008 & 2010; and NetBeans.
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| Client: [Sony Broadcast & Professional (Europe)](https://www.EamonnDuffy.com/V2/Links/R3001) | January 2008 – April 2009 |
| * Sony develop products and provide services for the broadcast and medical industry.
* Work was carried out using Visual Studio 6, Visual Studio .NET 2003 and Visual Studio 2005.
* Initially worked in **C++**, **MFC** and **STL**, with sockets and some simple threading, and then worked in **C#** and **C++**, with some threading.
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| Client: [CheckFree](https://www.EamonnDuffy.com/V2/Links/R3008) via 6PM Consultancy | June 2007 – July 2007 |
| * CheckFree produce Banking and Cheque Processing solutions.
* Work was carried out using Visual Studio .NET 2003; ultimate target system was Solaris.
* Worked in **C++** (with some **STL**) from design work done by a Technical Architect using UML.
* Produced unit tests as the code was developed; all code was reviewed before it was checked in.
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| Client: [Axxia](https://www.EamonnDuffy.com/V2/Links/R3007) | January 2007 – May 2007 |
| * Axxia produce case and document management software for the legal profession.
* Work was carried out using Visual Studio 2005.
* Worked in **C++**, **MFC** and **SQL**, with some **ATL** and **COM**, and some simple threading.
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| Client: [MMI Research](https://www.EamonnDuffy.com/V2/Links/R3006) | July 2005 – January 2007 |
| * MMI Research specialise in communications and security solutions.
* Work was carried out using Visual Studio .NET 2003 and Visual Studio 2005.
* Initially worked in **C++** and **MFC**, and then worked in **C#**, **Managed C++** and **C++** (with some **STL** and multi-threading).
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| Client: [Oxford Instruments Medical](https://www.EamonnDuffy.com/V2/Links/R3000) | January 2004 – December 2004 |
| Originally called Medelec (see later). * Oxford Instruments Medical produced medical electronic solutions.
* Work was carried out using Visual Studio .NET 2003.
* Design work was carried out using **UML**, and implementation was carried out using **C++** and **MFC**, with some multi-threading.
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| [Eadent](https://www.EamonnDuffy.com/V2/Links/R3005) | February 2003 – June 2010 And April 2021 – Present |
| Pursuing Software-Based Business Startup Ideas, including with colleagues, and additionally with some Contracting/Consultancy. The name Eadent stems from Eamonn Anthony Duffy Enterprises.* Developed a location-based tracker (using GPS) with map display (**C++**, **MFC**, **Map Pro**, **SMS Gateway**).
* Developed a multi-tier knowledge management system, using a unit test driven approach, with a location-based prototype web site application (**C#**, **ADO.NET**, **SQL Server**, **csUnit**).
* Developing a Self-Help Therapy Resources Service (<https://www.RaptureTherapy.global/>) (**C#**, **SQL**, **ASP.NET Razor**, **HTML**, **CSS**).
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| Travelling and visiting family and friends | June 2002 – January 2003 |
| Florida, New York, Singapore, Australia, New Zealand and Hong Kong. |

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| Muse Gaming/GoldPlay UK/Kismet Studios | April 2000 – April 2002 |
| Developing a gaming system accessible over the Internet.* The gaming system consisted of: ATL client-server framework; SQL Server; IIS; chat server; web-based administration. Each game had client and server components running on this framework.
* Team-based environment.
* Defined the system architecture for the addition of chat and auto-update functionality.
* Developed the multi-threaded chat server (**TCP/IP sockets**, **I/O completion ports**, **C++**, **ATL**).
* Developed the client side of the auto-update facility (**TCP/IP sockets**, **C++**, **ATL**).
* Worked with team involved in defining the architecture for adding multi-player functionality.
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| [Sony Broadcast & Professional (Europe)](https://www.EamonnDuffy.com/V2/Links/R3001) | August 1997 – March 2000 |
| Developing products and providing services for the broadcast industry.Systems Product Development was a Consultancy department within Systems Integration division, developing project-based custom software solutions, for local and international clients. Example projects:*Big Brother (Dutch [1999] & German [2000])** Developed software for part of the initial Big Brother TV shows.
* Wrote a multi-threaded in-process **COM** server (**C++**, **ATL**, **OLE DB**) to interact with an Oracle database.
* Successfully established good channels of communication with colleagues in Holland, who were responsible for developing the applications that used the server.
* Commissioned systems on site with Dutch colleagues, for the first Dutch and German shows.

*Subtitle And Stream Synchroniser; Material Broker** Initially developed part of a large system for a customer in Israel (Subtitle And Stream Synchroniser application).
* The multi-threaded, **C++** and **MFC** application (with UI) interacted with 5 other systems (using **TCP/IP sockets**) and an Oracle Database. Two of the systems were provided by external companies.
* Developed simulators for the external interfaces as the systems were not available locally.
* Later assisted a colleague develop another part of the system (Material Broker application).
* Developed an in-process **COM** server (**C++**, **ATL**, **OLE DB**) to interact with an Oracle database, and integrated it into the application.
* Co-developed the code to parse and generate simple **XML** files (**C++**, **MFC**, **Microsoft XML interfaces**).

*Tape Library System** Part of a 4 strong team developing a Tape Library System for a Spanish customer.
* Co-designed the system using **UML** and **Rational Rose**.
* Developed an in-process **COM** server (**C++**, **ADO**) to interact with an Oracle database. This was used by the other applications in the system.
* Developed the Librarian Client UI application (**C++**, **MFC**).
* Developed an Event Logging in-process **COM** server (**C++**, **ATL**), which was later re-used on other projects.

*Tape Preparation System** Part of a 6 strong team (2 Sony, 4 external) developing a Tape Transfer system for an Italian customer.
* Responsible for developing the Tape Preparation part of the system.
* Interacted extensively with Italian engineer responsible for the PLC control of the conveyor belts and robots, and co-developed a software/control architecture with them.
* Developed many multi-threaded in-process **COM** servers (**C++**, **MFC**, **Serial communications**) for controlling Bar Code Readers, a Bar Code Printer and a Tape Cleaning Unit.
* Developed a main application, with UI, (**C++**, **MFC**) to sequence and control the overall Tape Preparation process, including communication/interaction with the PLCs via Digital I/O lines.
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| [Medelec](https://www.EamonnDuffy.com/V2/Links/R3000) | September 1988 – July 1997 |
| This company designed & manufactured medical diagnostic equipment.* **Synergy** – Real-time, multi-threaded, MS Windows-based signal acquisition and analysis equipment.
* Member of architecture team. Used a combination of **OMT** and **Booch**, and the System Architect tool.
* Member of team that designed and implemented the multi-threaded real-time trace display (**C++**, **MFC**).
* Initially developed the multi-threaded framework (**C++**, **MFC**) for the system.
* **Athena NT+** - Real-time, multi-tasking, PC-based, vital signs monitoring equipment.
* Developed from scratch for sister company in Denmark, using iRMX for Windows Operating System.
* Designed and developed parts of the main multi-tasking PC software (**ANSI C**, **iRMX for Windows**) and all of the real-time display software for the custom graphics card (**ANSI C**, **Texas Instruments 34010 Assembly Language**).
* Seconded to Denmark for 16 months to assist the transfer, completion and launch of the product.
* **Sapphire:** Developed text-display, interrupt handler and startup software (**ANSI C**, **Hitachi H16 Assembly Language**).
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