



Fiachra Matthews

Developer

Technical skills

Programming Languages

Expert C++, C, Java, Obj-C, Python, Javascript, HTML
Intermediate C#, x86 Assembly, PHP, MySQL, CSS
Novice Perl, Lua, Scheme

Tools & Technologies

Expert GIT, SVN, Matlab, Eclipse, Visual Studio, Xcode, Bash scripting, Marmalade, Unity, QT, Cocos2d-x
Intermediate Amazon Web Services, LAMP Configuration, Unreal Engine 4, Blender, Photoshop, 3DS Max, REST, Agile Enviroments, SCRUM, jQuery

Operating Systems

Windows (2000, XP, Server 2003, 7, 8), Linux (Ubuntu, Debian, SuSE), OSX

Industry Experience

Feb,2013 – **Lead Software Developer**, *Galvanic*, Dublin.

Present Coordination and development of Desktop & mobile (Android/iOS) and games for the PIP stress sensor.

Tasks & Responsibilities:

- Management of the software team and development life cycle of the PIP apps
- Publishing of four apps to both iOS and Android App Stores
- Development and maintenance of a native iOS, Android and OSX SDKs for the PIP
- Developing plug-ins from the SDK to cross-platform development environments (Marmalade & Unity)
- Development of native and cross-platform apps for use with the PIP

Dec,2011 – **Software Developer**, *5th Province Ventures*, *Dublin*.

Feb,2013 Developer for the iOS and Android app for WISP, a location based social-networking system.

Tasks & Responsibilities:

- Feature Design and Implementation
- Managing source control systems
- Integration of new features with the custom XMPP server back-end
- In app development done using C++ and javascript with tools developed with python

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May,2009 – **Software Team Leader for Irish Robocup team. Post-Doctoral Fellow, Hamilton Institute, NUI Maynooth, Maynooth, Co. Kildare.**

Tasks & Responsibilities:

- Developing software systems for the RoboEireann Standard Platform League (SPL) team
- Coordination maintenance of the overall software project
- Supervisory roles for students on work placement or 10 week internship projects (Summer Internship in Autonomous Robotics (SIAR))
- Administrative duties include organizing and coordinating travel for the team to compete in International competitions

Education

2005–2010 **PhD, Biomedical Engineering, Hamilton Institute, NUI Maynooth.**

Title *Integrated Real-Time Control And Processing Systems For Multi-Channel Near-Infrared Spectroscopy Based Brain Computer Interfaces.*

Supervisors Prof. Barak Perlmutter & Dr Tomas Ward

Description In this project I led the development of a device that would enable disabled subjects to control computer systems using thought alone. The project involved designing specifications for the hardware and creating and implementing software algorithms for the control and processing of the data and user interaction. Software was development using Matlab, Labview, C, C++ and Python.

2000–2005 **BSc, Computer Science & Software Engineering, NUI Maynooth, 1st Hons,**

A comprehensive computer science curriculum including modules in software engineering, networking, digital architecture and more. Includes a six month industrial work placement and major final year project.

Work Placement IBM Microelectronics Division (IMD), Damastown, Co. Dublin. Wrote software in VB, Lotus Script and Javascript with the Process Engineering group to improve efficiency in the testing and validating of microchips.

Final Year Project Development of a USB based orientation sensor for use as a platform for a human motion tracking node. Device firmware was developed in Microchip Assembly while the client driver and front-end were developed using C and C++. This project won first prize in the Hewlett Packard Invent Award in 2005.

Interests

Research

- Biomedical Engineering
- Robotics
- Hardware Interfacing
- Computer Architecture

Personal

- Amateur Drama, directing and stage management.
- 3D modeling and animations with Blender
- Design and image manipulation with Photoshop

References

Prof. Barak Pearlmuter, Hamilton Institute, NUI Maynooth, barak@cs.nuim.ie

Dr. Tomas Ward, Dept. of Engineering, NUI Maynooth, tomas.ward@nuim.ie

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Company Recruitment team

*Company, Inc.
123 somestreet
some city*

January 01, 1984

Dear Sir or Madam,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis ullamcorper neque sit amet lectus facilisis sed luctus nisi iaculis. Vivamus at neque arcu, sed tempor quam. Curabitur pharetra tincidunt tincidunt. Morbi volutpat feugiat mauris, quis tempor neque vehicula volutpat. Duis tristique justo vel massa fermentum accumsan. Mauris ante elit, feugiat vestibulum tempor eget, eleifend ac ipsum. Donec scelerisque lobortis ipsum eu vestibulum. Pellentesque vel massa at felis accumsan rhoncus.

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Albert Einstein discovered that $e = mc^2$ in 1905.

$$e = \lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$$

Yours faithfully,

Fiachra Matthews

Attached: curriculum vitae

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